

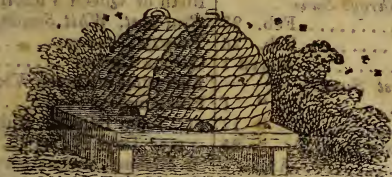
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ALMANAC,

FOR THE YEAR OF OUR LORD

1868,



Being Bissextile or Leap Year, and until the 20th of June,
the Thirty-first Year of the Reign of Her Majesty, Queen
Victoria.

Calculated for the Meridian of Toronto, in Latitude $43^{\circ} 39'$
North, and Longitude 5 hours 18 minutes West of the Royal
Observatory, Greenwich, but will answer with sufficient ex-
actness for the whole of Ontario.

Entered according to Act of Provincial Legislature, in the Year of our
Lord One Thousand Eight Hundred and Sixty-seven, by ADAM
MILLER, in the Office of the Registrar of the Province of Ontario.

PUBLISHED BY SHAVER & BELL,

IMPORTERS OF DRY GOODS,

And Manufacturers of Boots and Shoes, Wholesale
and Retail,

TORONTO.

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The Publisher of this Almanac, in presenting another yearly edition, trusts that the improvements he has made in the matter, will continue to extend its popularity. The prognostications of the probable state of the weather are based upon the rules said to be drawn up by Herschel, Clarke, and Darwin, combined with a practical acquaintance with the Canadian climate.

Chronological Cycles and Epochs.

Dominical Letter.....	E, D	Jewish Year begins September	
Golden Number.....	7	10th, 1868.....	5629
Epaet, Moon's Age, Jan. 1st...	6	Roman Indiction	11
Solar Cycle	1	Mahomedan Era, April 24th,	
Julian Period	6581	1868	1285

Fixed and Moveable Festivals.

Epiphany	Jan. 6	<i>Ascension Day, Holy Thurs-</i>	
<i>Septuagesima Sunday</i>	Feb. 9	<i>day</i>	May 21
<i>Quinquagesima Shrove Sun-</i>		Birth of Queen Victoria... "	24
<i>day</i>	Feb. 23	<i>Pentecost, Whit Sunday</i> ... "	31
<i>Ash Wednesday</i>	Feb. 26	<i>Trinity Sunday</i>	June 7
St. David.....	March 1	Corpus Christi	" 7
<i>Quadragesima, 1st Sunday</i>		Accession of Queen Vict... "	20
<i>in Lent</i>	" 1	Proclamation	" 21
St. Patrick	" 17	St. John Baptist, Midsum-	
Annunciation Lady Day... "	25	<i>mer Day</i>	" 24
<i>Palm Sunday</i>	April 5	St. Michael, Michaelmas day	Sept. 29
<i>Good Friday</i>	" 10	Birth of the Prince of Wal. Nov.	9
<i>Easter Sunday</i> ..	" 12	<i>1st Sunday in Advent</i>	" 29
<i>Low Sunday</i>	" 19	St. Andrew	" 30
St. George.....	" 23	St. Thomas.....	Dec. 21
<i>Rogation Sunday</i>	May 17	Christmas Day.....	" 25

Holidays Observed at Public Offices.

Circumcision	Jan. 1	Corpus Christi	June 11
Epiphany.....	" 6	St. Peter and St. Paul... "	29
Annunciation.....	March 25	All Saints Day	Nov. 1
Good Friday.....	April 10	Conception of the Blessed	
Ascension Day.....	May 21	Virgin Mary	Dec. 8
Queen's Birthday.....	" 24	Christmas Day.....	" 25

Beginning and Length of the Seasons.

	H. M.	
Winter begins, December 21st, 1867.....	6 46 p.m.	} Green- wich Mean Time
Spring begins, March 20th, 1868.....	7 43 a.m.	
Summer begins, June 21st, 1868	4 09 a.m.	
Autumn begins, September 22nd, 1868	6 32 p.m.	
Winter begins, December 21st, 1868	0 28 p.m.	

	D.	H.	M.
Length of the Winter 1867-8.....	89	00	57
Length of the Spring, 1868.....	92	20	26
Length of the Summer, 1868.....	93	14	23
Length of the Autumn, 1868.....	89	17	56
Sun North of the Equator.....	186	10	49
Sun South of the Equator.....	178	18	53
During the year 1867-8, the Sun longer in N. Signs.....	7	15	56
Average excess of Sun in N Signs.....	7	16	51
Length of the Tropical year, commencing at the Winter Solstice, 1867, and terminating at the Winter Solstice, 1868.....	365	5	42
Average length of the Tropical year.....	365	5	48

The *Solar year* is the time which the sun takes in passing over the twelve signs of the Zodiac, which is 365 days, 5h. 48m. 48s. The *Civil year* is 365 days 6 hours, or rather 365 days for three years in succession, and every fourth year 366 days. The *Sidereal year* is 365 days, 6h., 6m., 18.5s. The *Anomalistic year* is 365 days, 6h., 14m. The *lunar* astronomical year is 354 days, 8h., 48.6m., or 12 lunations. The *Anomalistic year* is an advance of the orbit as part of the solar system in space, and its excess over the Sideral or Tropical year, is the stellar measure of the annual advance of the whole system.

Eclipses During the Year 1868.

In the year 1868, there will be two Eclipses of the Sun.

- I. On February 22nd, there will be an Annular eclipse of the sun, invisible on this continent.
- II. On August 17th, a total eclipse of the sun, invisible on this continent.

A Transit of Mercury over the sun's disc occurs November 4th, invisible as the transit occurs when the sun is below the horizon.

Appearances of the Planets 1868.

JUPITER will be a morning star until the 4th of July, then an evening star until the 26th of December. MARS will be a morning star until November 13th, then evening star. SATURN will be an evening star until the 24th of February, then a morning star until the 21st August, subsequently an evening star. VENUS an evening star until the 16th July, and a morning star during the remainder of the year. When the elongation of Venus is about 40° between its inferior conjunction and greatest elongation it appears brightest; for then, though its Phasis be but the 53.200ths of a circle, it is so much nearer the earth than at its superior conjunction, that the want of surface is more than compensated by intense light, this will occur on the 21st August.

The satellites of Jupiter are invisible from February 14th, to April 1st, the planet being too near the sun.

Explanation of the Calendar Pages.

Column

- 1 & 2 Contains the days of the month and week.
- 3 & 4 The rising and setting of the Sun's *centre* in Mean time.
- 5 The time of the Sun's passing the meridian the difference of which from noon will give the equation of time.
- 6 & 7 The rising and setting of the Moon in Mean time.
- 8 The time of the Moon's southing or passing the meridian.

The letter *a* signifies morning or that part of the astronomical day from Midnight to *Noon*, and *p* afternoon or from *Noon* to Midnight.

The top of each page gives the Moon's phases, or times of New and Full Moon, and of the first and last quarters, or two quadratures with the Sun. And the Sun's declination or distance North or South of the Equator for four days in the month.

The Year.

The length of the year is strictly expressed by the space of time required for the revolution of the earth round the Sun, namely 365 days 5 hours, 48 minutes, 49 seconds, and 1 tenth of a second, for to such a nicety has this time been ascertained. But for convenience in reckoning, it has been found necessary to make the year terminate with a day instead of a fraction of one, lumping the fractions together so as to make a day among themselves. About forty-five years before Christ, Julius Cæsar, having, by the help of Sosigenes an Alexandrian philosopher, come to a tolerably clear understanding of the length of the year, decreed that every fourth year should be held to consist of 366 days for the purpose of absorbing the odd hours. A day in February, the sixth before the calends of March (*sextilis*), was to be repeated in that fourth year; and each fourth year was thus to be bissextile. It was as if we were to reckon the 23rd of February twice over. Seeing that, in reality, a day every fourth year is too much by 11 minutes, 10 seconds, and 3 tenths of a second, it inevitably followed that the beginning of the year moved onward ahead of the point at which it was in the days of Cæsar; in other words the natural time fell behind the reckoning. From the time of the Council of Nice in 325, when the vernal equinox fell correctly on the 21st of March, Pope Gregory found in 1582 that there had been an over reckoning to the extent of ten days, and now the vernal equinox fell on the 11th of March. To correct the past error, he decreed that the 5th of October of that year should be reckoned as the 15th, and to keep the year right in future, the overplus being 18 hours, 37 minutes, and 10 seconds in a century, he ordered that every centurial year that could not be divided by 4, should *not* be bissextile, as it otherwise would be; thus in short dropping the extra day three times every four hundred years. The Gregorian style, as it was called, readily obtained sway in Catholic, but not in Protestant countries. It was not adopted in Britain till the year 1752, by which time the discrepancy between the Julian and Gregorian periods amounted to *eleven days*. An Act of Parliament was passed, dictating that the 5th of September of that year should be reckoned the 14th and that three of every four of the centurial years, should, as in Pope Gregory's arrangement, not be bissextile or leap years. It has consequently arisen 1800 not having been a leap year—that the new and old styles differ by *twelve days*, our first of January being equivalent to the 13th of old style.

Eclipses.

There being no eclipse of the Sun visible in Canada, and as no lunar eclipse happens this year the following notes on eclipses may be interesting.

Eclipses can only happen when the moon is in her syzgies; and then only when she is near the place of her nodes. If, at the time of her mean conjunction with the Sun, she be less than $13^{\circ}33'$ from her node, there will certainly be an eclipse of the Sun in some part of the world; but, if this distance be greater than $19^{\circ}44'$, between those limits it will be necessary to make a minute calculation. If at the time of her mean opposition she be $7^{\circ}7'$ distant from her node, there will certainly be an eclipse of the moon; but if $13^{\circ}21'$ distant therefrom there cannot be one. The number of eclipses in a year cannot be less than two, nor more than seven, and when there are only two, they will both be solar. A solar eclipse cannot take place unless the moon be in conjunction with the sun: and then only to a spectator on the earth under particular circumstances, when the centre of the sun and moon are in the same straight line with the eye of the spectator, and the apparent diameter of the moon is greater than that of the sun, the eclipse will be *total*; but, if her apparent diameter be less, the eclipse will be *annular*. In other cases, however, which are by far the most numerous, the sun will suffer only a partial eclipse. The greatest possible duration of the annular appearance of a solar eclipse is, according to M. Du Segour, $12m. 24s$; and the greatest possible time during which the sun can be totally obscured is $7m. 58s$. The magnitude and duration of every solar eclipse will in fact differ at every point of the earth's surface. A lunar eclipse takes place only when the moon is in opposition to the sun; and it is of the same magnitude and duration to every spectator on the surface of the earth. It is caused by her passing through the shadow of the earth; which is 3 and one half times longer than the distance between the earth and the moon. The breadth of this shadow in the part traversed by the moon, is about $2\frac{1}{2}$ times greater than the diameter of the moon; and is equal to the sum of the horizontal parallaxes of the sun and moon, *minus* the semi-diameter of the sun. The magnitude and duration of every lunar eclipse will consequently vary according to the magnitude of these quantities at the given time, and the relative position of the luminaries.

Transit of Mercury.

Mercury is sometimes seen to *pass over the Sun's disk*; which can only happen when he is in his nodes, and when the earth is in the same longitude, consequently this phenomenon, for many centuries to come, can take place only in the month of May or November. The first observation of this kind was made by Gassendi in November 1631. Since which period they have been frequent. The following is a list of those that will happen till the end of the present century: Nov. 4, 1868, May 6, 1678, Nov. 7, 1881, May 9, 1891, and Nov. 10, 1894.

1st Month.

January, 31 Days.

Begins on Wednesday.

Moon's Phases.		Kingston.		Toronto.	London.	Sun's Declination.		
	D.	h. m.		h. m.		h. m.		S. ° ' "
First Quarter	2	10 58 p.		10 45 p.		10 37 p.		1 23 1 38
Full Moon	9	5 48 p.		5 35 p.		5 27 p.		11 21 50 17
Last Quarter	16	Noon.		11 47 a.		11 39 a.		21 19 56 36
New Moon	24	2 14 p.		2 01 p.		1 53 p.		31 17 25 48

Days.		Sun.		Sun on Merid.	Moon		Moon on Merid.	EVENTS, &c.
M.	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Wed.	7 40	4 28	12 04	11 11	11 10	5 07	<i>Circumcision. Fair and</i>
2	Thur.	7 40	4 29	12 04	11 40	a. m.	5 52	<i>Wolfe b., 1727. keen.</i>
3	Fri.	7 40	4 30	12 05	p.m. 09	0 12	6 38	<i>D. Jerrold b., 1803.</i>
4	Sat.	7 40	4 31	12 05	0 42	1 15	7 28	<i>Silk brought to Europe, 536.</i>
5	SUN.	7 39	4 32	12 06	1 16	2 22	8 19	<i>6th ret. from Cabool, 1842.</i>
6	Mon.	7 39	4 33	12 06	1 59	3 30	9 16	<i>Epiphany. High Winds.</i>
7	Tues.	7 39	4 34	12 06	2 46	4 40	10 16	<i>A. Ramsay d., 1757. Fair</i>
8	Wed.	7 39	4 35	12 07	3 44	5 49	11 19	<i>Bat. of N. Orleans, 1815.</i>
9	Thur.	7 38	4 36	12 07	4 49	6 54	a.m.	<i>Moon's perigee, 9 p.m. with</i>
10	Fri.	7 38	4 37	12 08	6 01	7 51	0 22	<i>Laud beheaded, 1645.</i>
11	Sat.	7 38	4 38	12 08	7 16	8 42	1 25	<i>First Lottery in Eng., 1569.</i>
12	SUN.	7 37	4 39	12 08	8 28	9 26	2 25	<i>1st Sun. after Epiphany.</i>
13	Mon.	7 37	4 41	12 09	9 40	10 03	3 20	<i>Bat. of Chillianwallah, 1849.</i>
14	Tues.	7 37	4 42	12 09	10 47	10 36	4 12	<i>G. Frost in Eng., 1202. pleas</i>
15	Wed.	7 36	4 43	12 09	11 55	11 06	5 01	<i>E. Everett d., 1865. days.</i>
16	Thur.	7 36	4 45	12 10	a. m.	11 36	5 49	<i>Bat. of Corunna, 1809.</i>
17	Fri.	7 35	4 46	12 10	0 59	p.m. 09	6 37	<i>Franklin born, 1706.</i>
18	Sat.	7 35	4 47	12 10	1 59	0 40	7 22	<i>Burtpore cap., 1826. Very</i>
19	SUN.	7 34	4 49	12 11	2 58	1 16	8 09	<i>2nd Sun. after Epiphany.</i>
20	Mon.	7 34	4 50	12 11	3 54	1 55	8 56	<i>Howard, Philan. d., 1790.</i>
21	Tues.	7 33	4 51	12 12	4 49	2 40	9 45	<i>20th, 1st E. Par., 1265. cold.</i>
22	Wed.	7 32	4 53	12 12	5 38	3 24	10 31	<i>S. Sea bubble began, 1720.</i>
23	Thur.	7 31	4 54	12 12	6 25	4 17	11 20	<i>Moon's apogee, 2 p.m. Snow.</i>
24	Fri.	7 31	4 56	12 12	7 04	5 11	p.m. 06	<i>25th Burns b., 1859. High</i>
25	Sat.	7 30	4 57	12 13	7 42	6 07	0 52	<i>St. raul. Winds. Snow.</i>
26	SUN.	7 29	4 58	12 13	8 15	7 04	1 37	<i>3rd Sun. after Epiphany.</i>
27	Mon.	7 28	4 59	12 13	8 47	8 03	2 22	<i>Coffee br. to Eng., 1657. and</i>
28	Tues.	7 27	5 01	12 13	9 16	9 04	3 06	<i>Prescott d., 1859. rain.</i>
29	Wed.	7 26	5 02	12 14	9 44	10 04	3 50	<i>28th bat. of Aliwal, 1846.</i>
30	Thur.	7 25	5 03	12 14	10 13	11 05	4 35	<i>Chas. I. beh., 1639. Month</i>
31	Fri.	7 24	5 04	12 14	10 43	a. m.	5 21	<i>Pretender d., 1783. ends stormy.</i>

During this the season of comparative rest from out door labour, we cannot too strongly and persistently urge upon the practical farmer, who has difficulties of a serious character, in the nature of a Canadian climate, to contend with, the importance of improving himself at this seasonable opportunity, and the result of which if properly directed will be not so much to increase his capacity for a given day's work, as to enable him to use implements and processes by which his labour may be lessened, the season as it were extended, and the profits increased in a corresponding ratio, and although it would be simply a waste of time to teach the ordinary farmer chemistry, yet the general principles of science, which after all is only a systematic arrangement of well authenticated facts, should be a part of a farmer's reading and thought.

MEMORANDUM FOR JANUARY.

7

2nd Month.

February, 29 Days. Begins on Saturday.

Moon's Phases.		Kingston.	Toronto.	London.	Sun's Declination.		
	D.	h. m.	h. m.	h. m.	1	2	3
First Quarter.....	1	1 11 p.	0 58 p.	0 50 p.	1	17	8 55
Full Moon.....	8	4 31 a.	4 18 a.	4 10 a.	11	14	4 42
Last Quarter.....	15	4 12 a.	3 59 a.	3 51 a.	21	10	37 13
New Moon.....	23	9 16 a.	9 03 a.	8 55 a.	29	7	39 06

Days.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Sat.	7 23	5 05	12 14	11 16	0 07	6 11	York Cath. burnt, 1829.
2	SUN.	7 21	5 07	12 14	11 52	1 14	7 02	4th Sunday aft. Epiphany.
3	Mon.	7 20	5 08	12 14	p.m. 36	2 19	7 59	2nd, Candlemas. Stormy
4	Tues.	7 18	5 10	12 14	1 27	3 27	8 58	with
5	Wed.	7 17	5 12	15 14	2 25	4 31	9 59	Battle of Plassy, 1757.
6	Thur.	7 15	5 13	12 15	3 33	5 31	11 02	heavy snow.
7	Fri.	7 14	5 15	12 15	4 44	6 26	a.m.	Moon's perigee, 10 a.m.
8	Sat.	7 13	5 16	12 15	5 59	7 12	0 02	7th, Dickens b., 1812.
9	SUN.	7 12	5 17	12 15	7 13	7 53	1 01	Septuagesima. Milder
10	Mon.	7 11	5 18	12 15	8 26	8 30	1 56	9th, Can. ced. to G. B., 1763.
11	Tues.	7 10	5 19	12 14	9 36	9 05	2 50	10th, Victoria married, 1840.
12	Wed.	7 08	5 21	12 14	10 43	9 36	3 40	Rev. of 1688 compl'd. with
13	Thur.	7 07	5 22	12 14	11 48	10 08	4 29	rain.
14	Fri.	7 05	5 24	12 14	a.m.	10 41	5 18	Valentine's Day. Colder.
15	Sat.	7 03	5 26	12 14	0 50	11 17	6 06	14th, Capt. Cook k., 1799.
16	SUN.	7 02	5 27	12 14	1 48	11 55	6 53	Sexagesima. with
17	Mon.	7 00	5 29	12 14	2 43	p.m. 37	7 41	Moliere d., 1673.
18	Tues.	6 59	5 30	12 14	3 35	1 21	8 28	Luther d., 1546. snow
19	Wed.	6 58	5 31	12 14	4 21	2 10	9 15	Moon's apogee, 10 p.m.
20	Thur.	6 57	5 32	12 14	5 04	3 03	10 02	Battle Googerat, 1849. and
21	Fri.	6 55	5 33	12 14	5 43	3 59	10 49	Isl. Trinidad capt., 1797.
22	Sat.	6 54	5 34	12 14	6 18	4 57	11 35	Washington b., 1732. wind.
23	SUN.	6 52	5 36	12 14	6 49	5 57	p.m. 20	Shrove Sunday. Very
24	Mon.	6 51	5 38	12 14	7 19	6 55	1 04	Handel b., 1684. cold.
25	Tues.	6 49	5 40	12 14	7 48	7 58	1 49	26th, Moore, poet, d., 1852.
26	Wed.	6 47	5 41	12 14	8 17	8 58	2 34	Ash Wednesday. with
27	Thur.	6 45	5 42	12 13	8 46	10 01	3 19	Great Earthq., Lisbon, 1796.
28	Fri.	6 43	5 43	12 13	9 18	11 06	4 08	G. Buchanan d., 1582. high
29	Sat.	6 42	5 44	12 13	9 53	a.m.	4 58	Rossini b., 1792. wind.

The direction to be taken in ploughing, cannot always be settled beforehand; it depends on the form and surface of the land. If the soil is impervious, and the furrows intended for drainage lines, it will be advisable to plough in the most inclined direction, in order that the water may be easily drained. However, if the land be much inclined, it will be better to plough in an oblique direction, to diminish the slope and the current of water, and thus prevent any injury. It is the only method which gives the land a regular inclination, and the same on both sides of the furrow.

3rd Month.

March, 31 Days.

Begins on Sunday.

Moon's Phases.		Kingston.	Toronto.	London.	Sun's Declination.	
	D.	h. m.	h. m.	h. m.		
First Quarter	1	11 44 p.	11 31 p.	11 23 p.	1 S	7 16 17
Full Moon.....	8	3 18 p.	3 05 p.	2 57 p.	11 S	3 24 24
Last Quarter.....	15	10 24 p.	10 11 p.	10 03 p.	19 S	0 14 07
New Moon.....	24	1 55 a.	1 42 a.	1 34 a.	20 N	0 9 35
First Quarter	31	7 21 a.	7 08 a.	7 00 a.	31	4 27 53

Days.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	SUN.	6 41	5 44	12 12	10 32	0 10	5 50	1st Sunday in Lent.
2	Mon.	6 39	5 46	12 12	11 19	1 13	6 48	1st St. David. Clear and
3	Tues.	6 37	5 48	12 12	p.m. 11	2 20	7 45	Bat. of Point Pelee, 1838.
4	Wed.	6 35	5 50	12 12	1 13	3 18	8 45	Inauguration Day, U.S.
5	Thur.	6 33	5 51	12 12	2 21	4 13	9 44	cold,
6	Fri.	6 31	5 52	12 11	3 32	5 01	10 43	Moon's perigee, 6 p.m.
7	Sat.	6 29	5 53	12 11	4 47	5 45	11 40	B. of Eng. sus. payt., 1797.
8	SUN.	6 27	5 54	12 11	6 00	6 24	a.m.	2nd Sun. in Lent. milder
9	Mon.	6 26	5 55	12 11	7 14	6 57	0 33	Oersted d., 1851. with rain.
10	Tues.	6 24	5 56	12 11	8 22	7 31	1 26	P. of Wales married, 1863.
11	Wed.	6 23	5 57	12 10	9 30	8 04	2 17	1st d'y, paper in Eng., 1702.
12	Thur.	6 21	5 58	12 10	10 35	8 37	3 07	Adm'l. Byng shot, 1775.
13	Fri.	6 20	6 00	12 10	11 36	9 12	3 56	Planet Herschell dis., 1781.
14	Sat.	6 18	6 01	12 10	a.m.	9 50	4 45	Toronto a mkt. town, 1814.
15	SUN.	6 16	6 02	12 09	0 34	10 32	5 34	3rd Sun. in Lent. Fair
16	Mon.	6 14	6 04	12 09	1 28	11 17	6 23	Julien d., 1860. with high
17	Tues.	6 12	6 05	12 09	2 17	p.m. 06	7 11	St. Patrick. winds.
18	Wed.	6 10	6 06	12 08	3 01	0 55	7 57	Moon's Apogee, 4 p.m.
19	Thur.	6 09	6 07	12 08	3 41	1 50	8 44	(18) Prin. Louisa b., 1848.
20	Fri.	6 07	6 08	12 07	4 16	2 48	9 30	Vernal Equinox. Cold with
21	Sat.	6 05	6 10	12 07	4 49	3 46	10 15	Sir I. Newton d., 1727.
22	SUN.	6 04	6 12	12 07	5 21	4 46	11 00	4th Sun. in Lent. high
23	Mon.	6 02	6 14	12 06	5 50	5 48	11 45	Smith, Geologist, b., 1769.
24	Tues.	6 00	6 15	12 06	6 19	6 49	p.m. 30	Thorvaldsen d., 1844.
25	Wed.	5 58	6 16	12 06	6 49	7 52	1 16	Lady Day. winds.
26	Thur.	5 56	6 17	12 05	7 21	8 57	2 05	B. of Eng. incor., 1694.
27	Fri.	5 54	6 18	12 05	7 55	10 02	2 55	Florida discov., 1512.
28	Sat.	5 52	6 19	12 05	8 32	11 08	3 47	Brit. dec. war agt. Rus., 1854
29	SUN.	5 50	6 19	12 04	9 16	a.m.	4 42	5th Sun. in Lent. Stormy.
30	Mon.	5 48	6 20	12 04	10 06	0 12	5 38	Dr. Hunter d., 1788.
31	Tues.	5 47	6 21	12 04	11 04	1 11	6 37	Allies ent'd. Paris, 1814.

Draining not only deepens the soil but largely increases the immediate and lasting value of manures. The elements of manure act only upon plants in a state of solution, hence it is of the greatest importance that they be so applied, and the soil so prepared that they may not only be readily dissolved by the rain, but that the rain may freely pass through the soil, which acting as a filter arrests and holds these elements where they will best serve as food for vegetation. The true policy of the farmer is to use any means in his power for rendering his labour more effectual, and in no way can this be better accomplished than by draining and thus deepening and increasing the productive powers of the soil.

4th Month.

April, 30 Days. Begins on Wednesday.

Moon's Phases.		Kingston.		Toronto.	London.	Sun's Declination.	
	D.	h.	m.	h.	m.	h.	m.
Full Moon	7	2	12 a.	1	59 a.	1	51 a.
Last Quarter.....	14	5	30 p.	5	17 p.	5	09 p.
New Moon.....	22	3	15 p.	3	02 p.	2	54 p.
First Quarter	29	1	13 p.	1	00 p.	0	52 p.

ays.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Wed.	5 45	6 23	12 04	p.m. 08	2 08	7 35	<i>Month begins cold.</i>
2	Thur.	5 43	6 24	12 04	1 16	2 57	8 32	1st Mutiny, in India, 1857.
3	Fri.	5 41	6 25	12 03	2 26	3 41	9 26	Moon's perigee, 11 a.m.
4	Sat.	5 40	6 26	12 02	3 38	4 17	10 20	5th Canada discov., 1499.
5	SUN.	5 38	6 27	12 02	4 50	4 53	11 13	<i>Palm Sunday. becoming</i>
6	Mon.	5 37	6 28	12 02	6 00	5 27	a.m.	Old Lady day. milder with
7	Tues.	5 35	6 30	12 02	7 08	5 58	0 03	Prince Leopold b. 1853.
8	Wed.	5 33	6 31	12 01	8 15	6 33	0 54	Hud. Bay Co. chart., 1692.
9	Thur.	5 32	6 32	12 01	9 20	7 06	1 44	Lee surrd. to Grant, 1865.
10	Fri.	5 30	6 33	12 01	10 21	7 45	2 35	Good Friday. frequent
11	Sat.	5 28	6 34	12 01	11 18	8 24	3 24	G. Cauning d., 1770.
12	SUN.	5 27	6 35	12 00	a.m.	9 09	4 14	<i>Easter Sunday. showers.</i>
13	Mon.	5 26	6 36	12 00	0 10	9 56	5 03	14th, Lincoln Ass., 1865.
14	Tues.	5 24	6 37	12 00	0 57	10 48	5 52	Princess Beatrice b., 1857.
15	Wed.	5 22	6 39	12 00	1 38	11 41	6 38	Moon's Apogee, 11 a.m.
16	Thur.	5 20	6 40	12 00	2 15	p.m. 37	7 24	Bat. of Culloden, 1746. Fine
17	Fri.	5 18	6 41	12 00	2 49	1 34	8 09	Franklin d., 1790. mild
18	Sat.	5 17	6 43	11 59	3 21	2 33	8 54	1st Newspr. in Amer., 1704.
19	SUN.	5 15	6 44	11 59	3 50	3 35	9 39	<i>Low Sunday. Spring</i>
20	Mon.	5 14	6 45	11 59	4 20	4 36	10 24	Byron d., 1824. weather.
21	Tues.	5 12	6 46	11 59	4 48	5 40	11 10	22nd, Hume b., 1711.
22	Wed.	5 11	6 47	11 59	5 20	6 46	11 59	23, Shakspeare b. 1564, d. 1616
23	Thur.	5 09	6 48	11 59	5 53	7 53	p.m. 49	St. George. Month ends
24	Fri.	5 07	6 49	11 59	6 31	9 00	1 42	Defoe d., 1731. very wet.
25	Sat.	5 06	6 50	11 58	7 12	10 04	2 36	Princess Alice b., 1843.
26	SUN.	5 05	6 51	11 58	8 03	11 07	3 34	<i>2nd Sunday after Easter.</i>
27	Mon.	5 04	6 52	11 58	8 58	a.m.	4 32	26th, Cromwell b., 1599.
28	Tues.	5 02	6 54	11 57	9 59	0 04	5 30	Moon's perigee, 10 p.m.
29	Wed.	5 00	6 55	11 57	11 06	0 57	6 27	Peace with Russia. 1856.
30	Thur.	4 58	6 56	11 57	p.m. 14	1 41	7 21	Battle of Fontenoy, 1745.

Manure as much as possible on the surface, do not waste your manures by mixing them deeply with the soil. Plant shallow. Keep roots of all kinds, trees, plants and vines as near the surface as possible, there are strong reasons for the position assumed in the last sentence. Let your soil be deep and dry, but plant near the surface. Top dress your grass after mowing in July, under a burning summer sun, top dress in the fall before and during the autumn rains. Manure your grass instead of your corn and wheat. Broadcast at any time when you have manure and leisure, and some of the best authorities guarantee you will be satisfied with the result.

5th Month.

May, 31 Days.

Begins on Friday.

Moon's Phases.		Kingston.		Toronto.		Quebec.		Sur's Declination.
	D.	h.	m.	h.	m.	h.	m.	N. o. ' s. "
Full Moon	6	1	32 p.	1	19 p.	1	11 p.	1 15 18 47
Last Quarter	14	0	11 p.	11	58 a.	11	50 a.	11 18 4 48
New Moon	22	1	31 a.	1	18 a.	1	18 a.	21 20 20 37
First Quarter	28	6	87 p.	6	24 p.	6	15 p.	31 22 1 47

Days.		Sun.		Sun on Merid.	Moon		Sun on Merid	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Fri.	4 56	7 00	11 57	1 25	2 19	8 15	Gt. Exhib. opened, 1851 & 62.
2	Sat.	4 54	7 00	11 57	2 35	2 56	9 05	1st, Prince Arthur b., 1850.
3	SUN.	4 53	7 01	11 57	3 44	3 26	9 55	3rd Sun. after Easter.
4	Mon.	4 52	7 02	11 57	4 52	3 57	10 45	Seringapatam, st., 1799.
5	Tues.	4 50	7 03	11 57	5 59	4 30	11 35	Napoleon d., 1821. Showery
6	Wed.	4 49	7 04	11 56	7 05	5 02	a.m.	Gold fd. in Aust. 1851. and
7	Thur.	4 48	7 05	11 56	8 07	5 38	0 24	Russ. invade Turkey, 1828.
8	Fri.	4 46	7 06	11 56	9 07	6 17	1 14	Hamburg burnt, 1842. con-
9	Sat.	4 45	7 07	11 56	10 01	7 01	2 05	Gay Lussac d. 1850. tinuing
10	SUN.	4 44	7 08	11 56	10 52	7 47	2 54	4th Sun. after Easter.
11	Mon.	4 43	7 09	11 56	11 36	8 36	3 44	Mutiny in Delhi, 1857. wet,
12	Tues.	4 43	7 10	11 56	a.m.	9 29	4 31	J. R. Hind, b., 1823.
13	Wed.	4 42	7 11	11 56	0 15	10 25	5 18	Moon's Apogee, 6 a.m.
14	Thur.	4 41	7 12	11 56	0 50	11 25	6 03	13, Bat. of Langside, 1568.
15	Fri.	4 40	7 13	11 56	1 22	p.m. 20	6 48	Vacc'n. tried, Jenner, 1796.
16	Sat.	4 39	7 14	11 56	1 51	1 19	7 32	Henslow d., 1861. becoming
17	SUN.	4 38	7 15	11 56	2 19	2 21	8 16	Rogation Sunday. fair
18	Mon.	4 36	7 16	11 56	2 47	3 23	9 01	Trial by Jury inst., 1270.
19	Tues.	4 35	7 17	11 56	3 18	4 29	9 49	Boswell d., 1795. and fine.
20	Wed.	4 34	7 18	11 56	3 49	5 35	10 38	Columbus d., 1506 Weather
21	Thur.	4 33	7 19	11 56	4 24	6 44	11 30	Ascension Day. for
22	Fri.	4 33	7 20	11 56	5 05	7 51	p.m. 25	Pope b., 1688. some
23	Sat.	4 32	7 21	11 56	5 23	8 59	1 24	24th, Queen's Birthday.
24	SUN.	4 30	7 22	11 57	6 47	9 59	2 23	Sunday after Ascension.
25	Mon.	4 29	7 22	11 57	7 49	10 53	3 23	Moon's perigee, 4 a.m.
26	Tues.	4 29	7 23	11 57	8 56	11 41	4 22	Ad. Sir S. Smith d., 1840.
27	Wed.	4 28	7 24	11 57	10 06	a.m.	5 19	Hab. Corp. act passed, 1679.
28	Thur.	4 28	7 25	11 57	11 16	0 24	6 12	Wm. Pitt b., 1759. time
29	Fri.	4 27	7 26	11 57	p.m. 27	1 00	7 04	K. Charles restored, 1669.
30	Sat.	4 27	7 27	11 57	1 36	1 32	7 54	Pope d., 1764. showery.
31	SUN.	4 26	7 28	11 57	2 42	2 04	8 42	Pentecost, Whit Sunday.

Salt may be used profitably in a crude state, sown broadcast over the fields, particularly mowing or pasture fields where grass is growing out. The quantity recommended in England, and also by those who use it in this country, ranges from three to twenty bushels per acre. As a preventive remedy for worms there is nothing to be compared with salt; for this purpose it must be used liberally, that is, from ten to fifteen bushels per acre. Salt is one of the best things that can be used on garden walks to prevent the weeds growing, for this purpose enough must be put on to kill vegetation. Weeds in an asparagus bed may be salted to death, and the asparagus benefited,

18687

MEMORANDUM FOR MAY.

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6th Month.

June, 30 days.

Begins on Monday.

Moon's Phases.		Kingston.		Toronto.	London.	Sun's Declination.		
	D.	h.	m.	h.	m.	h.	m.	
Full Moon	5	1	50 a.	1	37 a.	1	29 a.	1 22 9 51
Last Quarter	13	5	09 a.	4	56 a.	4	48 a.	11 23 8 48
New Moon	20	9	41 a.	9	28 a.	9	20 a.	21 23 27 10
First Quarter	27	0	46 a.	0	33 a.	0	25 a.	30 23 8 29

Days.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Mon.	4 27	7 29	11 58	3 48	2 34	9 30	Sk. at Ridgeway. <i>Hot and</i>
2	Tues.	4 27	7 29	11 58	4 53	3 04	10 19	Donatti's Comet dis., 1858.
3	Wed.	4 27	7 29	11 58	5 57	3 39	11 08	Mutiny at Neemuch, 1857.
4	Thur.	4 26	7 30	11 58	6 56	4 15	11 57	Battle of Magenta, 1859.
5	Fri.	4 26	7 30	11 59	7 53	4 55	a.m.	E. takes pos. of Acadia, 1755.
6	Sat.	4 26	7 31	11 59	8 45	5 40	0 47	7, Reform Bill passed, 1832.
7	SUN.	4 25	7 32	11 59	9 32	6 29	1 37	Trinity Sunday. <i>Sultry,</i>
8	Mon.	4 25	7 33	11 59	10 14	7 20	2 25	T. Paine d., 1809. <i>becoming</i>
9	Tues.	4 24	7 34	11 59	10 49	8 15	3 13	Moon's Apogee, 11 a.m.
10	Wed.	4 24	7 34	11 59	11 22	9 12	3 58	Dollond, opt. b., 1706. <i>more</i>
11	Thur.	4 23	7 35	11 59	11 53	10 09	4 43	Corpus Christi. <i>rainy.</i>
12	Fri.	4 23	7 35	11 59	a.m.	11 07	5 27	New York incorp., 1665.
13	Sat.	4 23	7 36	12 00	0 22	p.m. 07	6 11	Russ. def. at Silistria, 1854.
14	SUN.	4 23	7 36	12 00	0 49	1 07	6 54	1st Sunday after Trinity.
15	Mon.	4 23	7 37	12 00	1 17	2 09	7 39	Magna Charta signed, 1215.
16	Tues.	4 23	7 37	12 01	1 46	3 14	8 26	Bat. of Ligny. 1815. <i>Still</i>
17	Wed.	4 23	7 38	12 01	2 20	4 22	9 17	Bat. of Bunker Hill, 1775.
18	Thur.	4 23	7 38	12 01	2 57	5 28	10 09	Waterloo, 1815. <i>changeable</i>
19	Fri.	4 23	7 39	12 02	3 42	6 39	11 08	Alabama Sunk, 1864.
20	Sat.	4 24	7 39	12 02	4 33	7 45	p.m. 08	Accession of Q. Victoria.
21	SUN.	4 24	7 40	12 02	5 33	8 43	1 09	2nd Sunday after Trinity.
22	Mon.	4 24	7 40	12 02	6 39	9 35	2 10	Moon's Perigee, 1 a.m.
23	Tues.	4 25	7 40	12 02	7 51	10 21	3 10	21, Summer Solstice. <i>More</i>
24	Wed.	4 25	7 39	12 02	9 04	11 01	4 07	Mid. Sum. St. Jean Bte.
25	Thur.	4 25	7 39	12 02	10 15	11 36	5 00	Rep. of Corn Law. 1846. <i>set-</i>
26	Fri.	4 26	7 39	12 02	11 25	a.m.	5 50	Cawnpore Mass., 1857. <i>Red</i>
27	Sat.	4 26	7 39	12 03	p.m. 34	0 06	6 40	28, Ld. Raglan d., 1855. <i>and</i>
28	SUN.	4 26	7 39	12 03	1 41	0 38	7 28	3rd Sunday after Trinity.
29	Mon.	4 27	7 39	12 03	2 45	1 08	8 16	H. Clay d., 1852. <i>warmers.</i>
30	Tues.	4 27	7 39	12 03	3 49	1 41	9 05	Greenwich Hos. foun., 1696.

As a great deal depends on the quality of the butter our farmers send to market, they should see that the most scrupulous cleanliness should be exercised, even the hands of those making the butter should be free from the slightest taint of soap, Persons who are subject to moist hands should never make butter, as it is very liable to be contaminated by any animal secretion, and it is a good plan to rinse the hands in water containing some oatmeal before commencing. Great care should be taken to have the firkins and stoneware in which it is packed sweet and clean. Attention should also be paid to the atmosphere of the apartment in which the milk is first placed, and in which the subsequent operations go on, as a tainted atmosphere always tends to injure the quality of the marketable commodity.

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7th Month.

July, 31 Days. Begins on Wednesday.

Moon's Phases.		Kingston.	Toronto.	London.	Sun's Declination.	
	D.	h. m.	h. m.	h. m.		
Full Moon	4	3 35 p.	3 22 p.	3 14 p.	1	23 4 22
Last Quarter	12	7 36 p.	7 23 p.	7 15 p.	11	22 1 22
New Moon	19	4 52 p.	4 39 p.	4 31 p.	21	20 20 19
First Quarter	26	8 47 a.	8 34 a.	8 26 a.	31	18 5 54

Days.		Sun,		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Wed.	4 28	7 40	12 04	4 49	2 16	9 53	Confed. of B. A. Prov. 1867.
2	Thur.	4 28	7 40	12 04	5 46	2 54	10 42	1, Peel d., 1850. <i>Weather</i>
3	Fri.	4 29	7 39	12 04	6 40	3 36	11 32	Quebec founded in 1608.
4	Sat.	4 29	7 39	12 04	7 28	4 24	a.m.	Indep. of U. S., 1776.
5	SUN.	4 30	7 39	12 04	8 12	5 15	0 21	4th Sunday after Trinity.
6	Mon.	4 30	7 38	12 05	8 50	6 08	1 09	Moir, d., 1851. <i>changeable</i> ,
7	Tues.	4 31	7 38	12 05	9 24	7 04	1 55	Moon's Apogee, noon.
8	Wed.	4 32	7 37	12 05	9 57	8 01	2 40	Ed. Parry d., 1855.
9	Thur.	4 32	7 37	12 05	10 25	8 58	3 24	Hallam, hist., b., 1777.
10	Fri.	4 33	7 36	12 05	10 52	9 57	4 08	Columbus b., 1447. <i>becoming</i>
11	Sat.	4 34	7 36	12 05	11 19	10 56	4 51	Canada inv., 1812. <i>hot.</i>
12	SUN.	4 35	7 36	12 05	11 48	11 55	5 34	5th Sunday after Trinity.
13	Mon.	4 36	7 35	12 05	a.m.	p.m. 58	6 19	R. Cromwell d., 1712. <i>Occa-</i>
14	Tues.	4 36	7 35	12 05	0 18	1 58	7 06	16, Hot Wednes. 1808 <i>sional</i>
15	Wed.	4 37	7 34	12 06	0 52	3 08	7 56	St. Swithin. <i>thunder</i> ,
16	Thur.	4 38	7 33	12 06	1 32	4 16	8 51	Beranger d., 1857.
17	Fri.	4 39	7 32	12 06	2 19	5 23	9 49	Cawnpore st., Havelock, 1857
18	Sat.	4 40	7 31	12 06	3 13	6 25	10 49	Bat of Lundy's Lane, 1813.
19	SUN.	4 41	7 30	12 06	4 17	7 23	11 52	6th Sunday after Trinity.
20	Mon.	4 42	7 29	12 06	5 27	8 12	p.m. 53	Moon's Perigee 8 a.m.
21	Tues.	4 43	7 29	12 06	6 41	8 56	1 53	Burns d., 1796. <i>and contin-</i>
22	Wed.	4 43	7 28	12 06	7 57	9 35	2 51	23, Canadas United, 1840.
23	Thur.	4 44	7 27	12 06	9 11	10 08	3 44	Gibraltar cap., 1704. <i>uing</i>
24	Fri.	4 45	7 26	12 06	10 21	10 40	4 35	Congress of Vienna, 1814.
25	Sat.	4 46	7 25	12 06	11 31	11 11	5 25	St. James. <i>hot and dry.</i>
26	SUN.	4 47	7 24	12 06	p.m. 38	11 44	6 14	7th Sunday after Trinity.
27	Mon.	4 49	7 23	12 06	1 41	a.m.	7 02	Reign of Terror end., 1794.
28	Tues.	4 50	7 22	12 06	2 44	0 17	7 52	Ld. Durham d., 1840. <i>More</i>
29	Wed.	4 51	7 21	12 06	3 42	0 56	8 40	Spanish Armada des., 1588.
30	Thur.	4 52	7 20	12 06	4 37	1 36	9 29	Cook's first voyage, 1768.
31	Fri.	4 53	7 19	12 06	5 26	2 21	10 17	Penn d., 1718. <i>changeable.</i>

When the grasses are cut, as they should be in blow, and before their seed ripens and their stems get tough and hard, they contain the largest amount of moisture, and require careful making, but produce then the most nutritious and palatable hay, as soon as it is thoroughly dry it should be at once housed or put into the stack and well trodden down. A certain amount of heating improves the flavour, and renders the hay more palatable to every sort of stock. Hay that has stood for seed is tougher and less nutritious than that cut earlier, for the sugar, gum, and gluten of the matured seed have been abstracted from the stems, which are then apt to be little better than straw. For milch cows grass hay is best, but clover hay is richer in albuminous matter and better adapted for horses and sheep.

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8th Month.

August, 31 Days. Begins on Saturday.

Moon's Phases.		Kingston.		Toronto.		London.		Sun's Declination.
	D.	h.	m.	h.	m.	h.	m.	N s ' "
Full Moon	3	6	47 a.	6	34 a.	6	26 a.	1 17 50 43
Last Quarter.....	11	7	24 a.	7	11 a.	7	03 a.	11 15 03 47
New Moon.....	17	0	07 a.	11	54 p.	11	46 p.	21 11 52 42
First Quarter	24	7	42 p.	7	29 p.	7	21 p.	31 8 22 41

Days.	Sun		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M Week	Rises.	Sets.		Rises.	Sets.		
	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1 Sat.	4 54	7 13	12 06	6 10	3 19	11 05	Lammas Day.
2 SUN.	4 55	7 16	12 06	6 50	4 02	11 52	8th Sunday after Trinity.
3 Mon.	4 56	7 14	12 06	7 26	4 57	a.m.	2, Bat. Blenheim. Showery
4 Tues.	4 57	7 13	12 06	7 58	5 54	0 38	Pil. Fathers sailed, 1620.
5 Wed.	4 58	7 12	12 05	8 29	6 51	1 22	Lord Howe d., 1799. with
6 Thur.	4 59	7 10	12 05	8 57	7 50	2 06	Prince Alfred b., 1844. high
7 Fri.	5 01	7 09	17 05	9 24	8 48	2 49	Moon's Apogee, 6 p.m.
8 Sat.	5 02	7 07	12 05	9 51	9 49	3 33	G. Canning d., 1827. winds.
9 SUN.	5 04	7 06	12 05	10 20	10 49	4 16	9th Sunday after Trinity.
10 Mon.	5 05	7 05	12 05	10 51	11 50	5 01	St. Lawrence dis., 1555.
11 Tues.	5 06	7 04	12 05	11 23	p.m. 53	5 48	Wilson, financier, d., 1860.
12 Wed.	5 08	7 02	12 04	a.m.	1 57	6 39	Bunyan d., 1688. Unsettled
13 Thur.	5 09	7 00	12 04	0 10	3 03	7 34	14, 1st prin. book pub., 1457.
14 Fri.	5 11	6 58	12 04	0 59	4 07	8 32	Ld. Clyde d., 1863. for some
15 Sat.	5 12	6 56	12 04	1 55	5 05	9 31	Napoleon b., 1769. time.
16 SUN.	5 13	6 55	12 04	3 03	6 00	10 34	10th Sun. after Trinity.
17 Mon.	5 14	6 54	12 03	4 14	6 46	11 34	Moon's Perigee, 6 p.m.
18 Tues.	5 15	6 52	12 03	5 30	7 26	p.m. 33	Beattie, poet, d., 1803. More
19 Wed.	5 16	6 51	12 03	6 46	8 04	1 30	Pascal d., 1662. pleasant
20 Thur.	5 16	6 50	12 03	8 01	8 38	2 24	Quekett, d., 1861 and set-
21 Fri.	5 17	6 49	12 03	9 13	9 12	3 17	The admiral Orlifant b., 1561.
22 Sat.	5 18	6 47	12 02	10 23	9 43	4 07	23, Sir W. Wallace ex., 1305.
23 SUN.	5 19	6 45	12 02	11 30	10 18	4 57	11th Sun. after Trinity.
24 Mon.	5 20	6 44	12 02	p.m. 35	10 54	5 47	23, Am. war beg., 1775. tied.
25 Tues.	5 22	6 42	12 02	1 34	11 34	6 36	Herschel d., 1822. Warm
26 Wed.	5 23	6 40	12 01	2 30	a.m.	7 25	Prince Consort b., 1819.
27 Thur.	5 24	6 38	12 01	3 22	0 18	8 14	Cæsar land. in Brit., 55 B.C.
28 Fri.	5 25	6 36	12 01	4 09	1 06	9 03	Algiers bomb., 1816. and
29 Sat.	5 26	6 35	12 01	4 50	1 58	9 49	Loss of the R. George, 1782.
30 SUN.	5 27	6 33	12 00	5 27	2 51	10 35	12th Sun. after Trinity.
31 Mon.	5 28	6 32	12 00	6 01	3 47	11 20	Sultry.

Mangold Wurzel, the common beet used for feeding cattle. The cultivation of this plant was only introduced in England as a field crop in 1786, and it is only within the last few years that its value as fodder has been really appreciated. At first so little was its value felt that the leaves only were fed to cattle. It stands a high temperature much better, and is less liable to the ravages of insects or disease than the turnip. The mode of cultivation does not differ much from that of turnips. It requires about seven pounds of seed to an acre, and as the grains are covered with a hard and rough coat, a previous soaking promotes a regular and quick braird it should be taken up before severe frost, and it is some time after storing before the roots can be used with advantage, for in early winter its juices, being un-ripened, have a laxative effect on animals.

9th Month, September, 30 Days. Begins on Tuesday.

Moon's Phases.		Kingston.	Toronto.	London.	Sun's Declination.
	D.	h. m.	h. m.	h. m.	N ° ' "
Full Moon	1	10 53 p.	10 40 p.	10 32 p.	1 8 01 02
Last Quarter	9	5 00 p.	4 47 p.	4 39 p.	8 5 25 02
New Moon	16	8 15 a.	8 02 a.	7 54 a.	16 2 21 18
First Quarter	23	10 17 a.	10 04 a.	9 56 a.	24 S 0 45 29

Days.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Tues.	5 28	6 31	11 59	6 31	4 44	a. m.	Yarrel, nat. d., 1856. <i>Fair</i>
2	Wed.	5 30	6 29	11 59	7 00	5 42	0 04	London burnt, 1666. <i>and</i>
3	Thur.	5 31	6 27	11 59	7 26	6 40	0 47	Battle of Worcester, 1651.
4	Fri.	5 32	6 25	11 59	7 55	7 41	1 30	Riv. Hudson discov., 1609.
5	Sat.	5 33	6 23	11 58	8 23	8 42	2 14	1st Amer. Congress, 1774.
6	SUN.	5 34	6 22	11 58	8 53	9 13	2 59	13th Sun. after Trinity.
7	Mon.	5 35	6 20	11 58	9 26	10 45	3 45	Porteous Mob, 1736. <i>season-</i>
8	Tues.	5 37	6 18	11 57	10 05	11 50	4 34	Sebastopol taken, 1855. <i>able</i>
9	Wed.	5 38	6 16	11 57	10 51	p.m. 54	5 26	Bat. of Flodden, 1513. <i>for</i>
10	Thur.	5 39	6 15	11 57	11 43	1 56	6 21	First import. of tea, 1391.
11	Fri.	5 40	6 13	11 56	a.m.	2 54	7 18	America dis., 1492. <i>some</i>
12	Sat.	5 41	6 11	11 56	0 43	3 47	8 17	Ld. Metcalf d., 1846. <i>time.</i>
13	SUN.	5 42	6 09	11 56	1 50	4 35	9 16	14th Sun. after Trinity.
14	Mon.	5 43	6 07	11 55	3 02	5 18	10 15	Wellington d. 1852. <i>Unset-</i>
15	Tues.	5 44	6 05	11 55	4 16	5 55	11 12	Moon's Perigee, 3 a.m. <i>tled,</i>
16	Wed.	5 46	6 04	11 55	5 34	6 31	p.m. 07	Fahrenheit d., 1736. <i>wind</i>
17	Thur.	5 47	6 02	11 54	6 48	7 05	1 02	Bat. of Antietam, 1862. <i>and</i>
18	Fri.	5 48	6 00	11 54	8 00	7 39	1 54	20, Bat. of Alma, 1854. <i>rain,</i>
19	Sat.	5 49	5 58	11 53	9 13	8 14	2 47	Lord Sydenham d., 1841.
20	SUN.	5 50	5 56	11 53	10 18	8 50	3 37	15th Sun. after Trinity.
21	Mon.	5 51	5 54	11 53	11 23	9 29	4 28	Sir W. Scott d., 1833. <i>con-</i>
22	Tues.	5 52	5 52	11 52	p.m. 24	10 12	5 19	Autumnal Equinox. <i>tinuing</i>
23	Wed.	5 54	5 51	11 52	1 16	11 01	6 08	Belgian Revolution, 1830.
24	Thur.	5 55	5 49	11 52	2 07	11 40	6 57	Visct. Hardinge d., 1856.
25	Fri.	5 56	5 47	11 51	2 51	a.m.	7 45	Porson d., 1808. <i>unsettled.</i>
26	Sat.	5 57	5 45	11 51	3 28	0 43	8 31	27, Moon's Apogee, 8 a.m.
27	SUN.	5 58	5 43	11 51	4 02	1 40	9 17	16th Sun. after Trinity. <i>!</i>
28	Mon.	6 00	5 42	11 50	4 33	2 36	10 01	Detroit cap., 1813.
29	Tues.	6 02	5 40	11 50	5 03	3 35	10 45	Michaelmas Day.
30	Wed.	6 03	5 38	11 50	5 31	4 34	11 28	29, Battle of Kars, 1855.

The rearing and fattening of the ox is one of the most important branches of agriculture. Since the price of butchers' meat has become so much higher, the breeding and feeding of cattle has received a great impetus. It is now the most improved method to feed the calf from the time it is dropped till it is sent to the butcher. Oil-cake is generally considered the best and most healthy auxiliary food for stock, whether old or young. The young animals are fed with hay in winter instead of straw and turnips. Cows are selected either for their properties of giving large quantities of milk, or for raising stock which are well suited for fattening. For milking the Ayrshire stands undoubtedly at the head of the list.

10th Month.

October, 31 Days. Begins on Thursday.

Moon's Phases.		Kingston.		Toronto.		London.		Sun's Declination.	
	D.	h.	m.	h.	m.	h.	m.	S	° ' "
Full Moon	1	2	54 p.	2	41 p.	2	33 p.	1	3 29 03
Last Quarter	9	1	09 a.	0	56 a.	0	43 a.	8	6 10 43
New Moon	15	5	57 p.	5	44 p.	5	36 p.	16	9 10 33
First Quarter	23	4	38 a.	4	25 a.	4	17 a.	24	12 01 51
Full Moon	31	6	01 a.	5	48 a.	5	40 a.		

Days.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Thur.	6 03	5 36	11 49	5 53	5 33	a.m.	Bat. of Toulon, 1793. <i>Month</i>
2	Fri.	6 04	5 34	11 49	6 27	6 33	0 12	Major André ex., 1780.
3	Sat.	6 05	5 33	11 49	6 55	7 36	0 57	Treaty of Limerick, 1691.
4	SUN.	6 02	5 31	11 49	7 30	8 40	1 44	17th Sun. after Trinity.
5	Mon.	6 07	5 29	11 48	8 05	9 43	2 32	4, 1st E. Bible printed, 1535.
6	Tues.	6 09	5 27	11 48	8 47	10 46	3 24	Jenny Lind b., 1821. <i>begins</i>
7	Wed.	6 10	5 25	11 48	9 36	11 49	4 15	8, N. W. Pass dis., 1853. <i>very</i>
8	Thur.	6 11	5 24	11 47	10 34	p.m. 47	5 12	Arch. Whately d. 1863. <i>wet.</i>
9	Fri.	6 12	5 22	11 47	11 36	1 41	6 07	Columbus dis. Cuba, 1492.
10	Sat.	6 14	5 20	11 47	a.m.	2 31	7 06	Father Mathew b., 1790.
11	SUN.	6 15	5 18	11 47	0 45	3 12	8 01	18th Sun. after Trinity.
12	Mon.	6 16	5 17	11 46	1 56	3 51	8 57	Bat. Queenst'n, 1812. <i>More</i>
13	Tues.	6 17	5 15	11 46	3 11	4 26	9 53	Moon's Perigee, 6 a.m. <i>set d.</i>
14	Wed.	6 18	5 13	11 46	4 22	4 59	10 45	13, Gen. Brock k., 1812.
15	Thur.	6 20	5 12	11 46	5 36	5 34	11 39	Com. N. R., 1851. <i>pleasant</i>
16	Fri.	6 21	5 10	11 45	6 47	6 08	p.m. 31	Par. Houses bt., 1834. <i>and</i>
17	Sat.	6 22	5 08	11 45	7 58	6 43	1 24	Sir P. Sidney d., 1586. <i>warm.</i>
18	SUN.	6 23	5 07	11 45	9 04	7 22	2 16	19th Sun. after Trinity.
19	Mon.	6 25	5 05	11 45	10 07	8 05	3 07	Dean Swift d., 1745. <i>becom.</i>
20	Tues.	6 26	5 04	11 45	11 08	8 51	4 01	Grace Darling d., 1842. <i>ing</i>
21	Wed.	6 27	5 02	11 45	11 58	9 41	4 49	Trafalgar, 1805. <i>cooler.</i>
22	Thur.	6 28	5 00	11 44	p.m. 47	10 32	5 39	Sir W. Molesworth d., 1855.
23	Fri.	6 30	4 59	11 44	1 27	11 28	6 27	Irish Massacre, 1641. <i>Look</i>
24	Sat.	6 31	4 57	11 44	2 03	a.m.	7 13	Webster d., 1852. <i>out for</i>
25	SUN.	6 33	4 56	11 44	2 35	0 26	7 56	20th Sun. after Trinity.
26	Mon.	6 34	4 54	11 44	3 04	1 24	8 40	25, Moon's Apogee, 1 a.m.
27	Tues.	6 35	4 53	11 44	3 33	2 23	9 24	M. Servetus b., 1553. <i>snow.</i>
28	Wed.	6 36	4 51	11 44	3 59	3 23	10 07	St. Simon & St. Jude. <i>Un-</i>
29	Thur.	6 38	4 50	11 44	4 27	4 24	10 52	Tower of London b., 1842.
30	Fri.	6 39	4 49	11 44	4 56	5 25	11 37	Earl of Dundonald d., 1860.
31	Sat.	9 40	4 47	11 44	5 28	6 28	a.m.	All Hallow's Eve. <i>settled</i>
								<i>and cool.</i>

Barley can be grown advantageously after turnips, if the crop has been consumed on the ground by sheep. The ground is carefully prepared by ploughing and rolling to pulverize it thoroughly before the reception of the seed, which is usually sown by a drill machine, at the rate of two bushels to an acre. Even on strong clay soils good crops may be obtained, if the barley is sown after a summer fallow or green crop, in which case the ground ought to be ploughed in the fall to render it friable by spring. As soon as the weather permits the seed is committed to the ground. A fine mould is thus obtained, and the crops are usually abundant and of good quality. It is the opinion of many maltsters that the thrashing machine injures the germinating properties of the barley.

11th Month.

November, 30 Days. Begins on Sunday.

Moon's Phases.		Kingston.		Toronto,		London.		Sun's Declination.	
	D.	h.	m.	h.	m.	h.	m.	S	°
Last Quarter.....	7	8	42 a.	8	29 a.	8	21 a.	1	14 41 30
New Moon.....	14	5	51 a.	5	38 a.	5	30 a.	8	16 48 43
First Quarter	22	1	42 a.	1	29 a.	1	21 a.	16	18 56 55
Full Moon.....	29	7	56 p.	7	43 p.	7	35 p.	24	20 43 29

Days.		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	SUN.	6 42	4 46	11 44	6 03	7 34	0 27	21st Sun. after Trinity.
2	Mon.	6 43	4 44	11 44	6 45	8 41	1 18	1, All Saint's Day.
3	Tues.	6 44	4 43	11 44	7 33	9 43	2 11	Bat. of Acre. <i>Changeable</i> ,
4	Wed.	6 46	4 42	11 44	8 27	10 44	3 07	Transit of Mercury. <i>high</i>
5	Thur.	6 47	4 41	11 44	9 28	11 39	4 04	Gunpowder plot, 1605. <i>keen</i>
6	Fri.	6 48	4 39	11 44	10 34	p.m. 30	5 01	5, Bat. of Inkerman, 1854.
7	Sat.	6 50	4 38	11 44	11 44	1 13	5 57	8, Milton d., 1674. <i>winds</i>
8	SUN.	6 51	4 37	11 44	a.m.	1 51	6 51	22nd Sun. after Trinity.
9	Mon.	6 52	4 36	11 44	0 54	2 26	7 45	Moon's Perigee, 9 a.m.
10	Tues.	6 54	4 35	11 44	2 05	2 58	8 36	9, Birth of P. of Wales, 1841.
11	Wed.	6 55	4 34	11 44	3 17	3 31	9 28	S. Sands burnt, 1857.
12	Thur.	6 56	4 32	11 44	4 28	4 05	10 20	Montreal taken, 1774. <i>pre-</i>
13	Fri.	6 58	4 31	11 45	5 38	4 39	11 12	Curran d., 1817. <i>vailing</i> .
14	Sat.	6 59	4 30	11 45	6 46	5 14	p.m. 03	Source of Nile dis., 1858.
15	SUN.	7 00	4 30	11 45	7 52	5 51	0 56	23rd Sun. after Trinity.
16	Mon.	7 02	4 29	11 45	8 54	6 40	1 48	Ferguson, astron., d., 1776.
17	Tues.	7 03	4 28	11 45	9 50	7 30	2 40	Prof. Forbes d., 1854. <i>Clear-</i>
18	Wed.	7 04	4 27	11 45	10 40	8 21	3 30	Luther b., 1483. <i>ing up and</i>
19	Thur.	7 05	4 26	11 46	11 24	9 17	4 19	Bat. of Navarino, 1827. <i>be-</i>
20	Fri.	7 07	4 25	11 46	p.m. 03	10 15	5 06	Lerd Elgin d., 1863. <i>coming</i>
21	Sat.	7 08	4 25	11 46	0 36	11 10	5 51	Moon's Apogee, 9 p.m.
22	SUN.	7 09	4 24	11 47	1 06	a.m.	6 35	24th Sun. after Trinity.
23	Mon.	7 11	4 23	11 47	1 34	0 10	7 18	Arch. Tillotson d., 1694.
24	Tues.	7 12	4 22	11 47	2 01	1 09	8 01	Knox d., 1672. <i>pleasanter</i> .
25	Wed.	7 13	4 22	11 47	2 29	2 09	8 45	British evac. N. Y., 1783.
26	Thur.	7 14	4 21	11 48	2 55	3 11	9 30	Mar. Sout d., 1850. <i>Contin-</i>
27	Fri.	7 15	4 21	11 48	3 26	4 13	10 18	Bat. of Cawnpore, 1857.
28	Sat.	7 17	4 20	11 48	4 00	5 18	11 08	28, Bat. of Pentland, 1666.
29	SUN.	7 18	4 20	11 49	4 41	6 24	a.m.	Advent Sunday. <i>uing</i>
30	Mon.	7 19	4 19	11 49	5 25	7 30	0 02	St. Andrew. <i>pleasant</i> .

It is a notorious fact that a great deal of the rye grass of commerce is raised in badly farmed districts; and as it is, in many cases, bought and sown by the unsuspecting farmer, without being properly cleaned, it is no wonder that he is often surprised and annoyed to find the fields overrun with weeds of all descriptions, though he was most particular in cleaning his land before sowing it down. Another means of propagating the growth of weeds is by the wind; here again the prevention is in the hands of the farmer. Such weeds should never be allowed to come to seed; all the fields should be gone over twice in the year. That great pest, the thistle, may be destroyed, if cut a little under ground about the end of May, and a little common salt applied to the root.

12th Month.

December, 31 Days. Begins on Tuesday.

Moon's Phases.		Kingston.	Toronto.	London.	Sun's Declination.
	D.	h. m.	h. m.	h. m.	S. ° ' "
Last Quarter.....	6	4 29 p.	4 16 p.	4 08 p.	1 21 56 31
New Moon.....	13	8 29 p.	8 16 p.	8 08 p.	8 22 48 55
First Quarter.....	21	11 24 p.	11 11 p.	11 03 p.	16 22 21 50
Full Moon.....	29	8 43 a.	8 30 a.	8 22 a.	24 23 24 52

Days		Sun.		Sun on Merid.	Moon.		Moon on Merid.	EVENTS, &c.
M	Week	Rises.	Sets.		Rises.	Sets.		
		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	
1	Tues.	7 20	4 19	11 49	6 17	8 36	0 58	Elliott, corn law poet d. 1849
2	Wed.	7 21	4 19	11 50	7 18	9 35	1 56	Coup d'Etat, Paris, 1858.
3	Thur.	7 22	4 18	11 50	8 24	10 26	2 55	Bat. of Hohenlinden, 1800.
4	Fri.	7 23	4 18	11 51	9 33	11 13	3 53	Moon's Perigee, 3 a.m. Gen-
5	Sat.	7 24	4 18	11 51	10 45	11 55	4 49	Bat, Austerlitz, 1805. <i>erally</i>
6	SUN.	7 25	4 18	11 52	11 54	p.m. 31	5 43	2nd Sunday in Advent.
7	Mon.	7 26	4 18	11 52	a.m.	1 02	6 34	6, Reb. in Canada, 1837. <i>fair.</i>
8	Tues.	7 27	4 18	11 52	1 05	1 34	7 25	DeQuincy d., 1859. <i>with</i>
9	Wed.	7 28	4 18	11 53	2 15	2 06	8 15	Father Mathew d., 1856.
10	Thur.	7 29	4 18	11 53	3 23	2 38	9 04	Gen. Williams, Kars b., 1800.
11	Fri.	7 30	4 18	11 54	4 31	3 12	9 55	<i>some pleasant days for</i>
12	Sat.	7 31	4 18	11 54	5 36	3 51	10 46	N. Zealand dis., 1642. <i>some</i>
13	SUN.	7 31	4 18	11 55	6 42	4 32	11 38	3rd Sunday in Advent.
14	Mon.	7 32	4 18	11 55	7 46	5 19	p.m. 30	Washington d.. 1799. <i>time.</i>
15	Tues.	7 33	4 19	11 56	8 32	6 11	1 21	14, Prince Consort d., 1861.
16	Wed.	7 34	4 19	11 56	9 20	7 04	2 11	Weber, composer b., 1786.
17	Thur.	7 34	4 19	11 57	10 01	8 01	2 59	Sir H. Davy b., 1779. <i>Grad-</i>
18	Fri.	7 35	4 20	11 57	10 37	8 59	3 45	Ld. Lynedoch d., 1843. <i>ually</i>
19	Sat.	7 35	4 20	11 58	11 09	9 58	4 30	Moon's Apogee, 7 p.m.
20	SUN.	7 36	4 20	11 58	11 37	10 56	5 13	4th Sunday in Advent.
21	Mon.	7 36	4 21	11 59	p.m. 04	11 54	5 56	St. Thomas. <i>changes to</i>
22	Tues.	7 37	4 21	11 59	0 30	a.m.	6 38	Winter Solstice. <i>wind.</i>
23	Wed.	7 37	4 22	12 00	0 56	0 55	7 21	22, Bat. of Ferozeshah, 1845.
24	Thur.	7 38	4 23	12 00	1 25	1 56	8 07	Thackeray d., 1863. <i>Rain</i>
25	Fri.	7 38	4 23	12 01	1 56	2 59	8 55	Chris'mas Day. <i>and</i>
26	Sat.	7 38	4 24	12 01	2 32	4 03	9 47	St. Stephen's Day. <i>snow.</i>
27	SUN.	7 39	4 25	12 02	3 13	5 10	10 42	1st Sun. after Christmas.
28	Mon.	7 39	4 25	12 02	4 04	6 16	11 41	Buffalo burnt, 1813.
29	Tues.	7 39	4 26	12 03	5 01	7 20	a.m.	Destr. of the Caroline, 1837.
30	Wed.	7 39	4 27	12 03	6 07	8 19	0 41	Black Rock burnt, 1813.
31	Thur.	7 39	4 28	12 04	7 18	9 09	1 41	Moon's Perigee, 1 p.m.

Fattening Fowls. If it is desired to fatten fowls in a short time, they should be confined in small coops; troughs for food and water should be fastened round the edge of the coop, and the whole placed in an out building, away from other fowls. For the first 24 hours give water but no food, on the second day commence feeding regularly three times daily, with the most nutritious food, such as oatmeal mixed with milk, boiled wheat, &c. The troughs should be cleaned daily, and supplied with plenty of fresh water. The fowls must be fed very early in the morning, and all they will eat at all times. In from fourteen to twenty days they will be in their best condition, when they should be killed, for if kept longer they soon become diseased.

1868]

MEMORANDUM FOR DECEMBER.

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The Royal Family.

THE QUEEN.

VICTORIA, Queen of the United Kingdom of Great Britain and Ireland; only daughter of His late Royal Highness Edward Duke of Kent; and Victoria late Duchess of Kent, daughter of Francis, Duke of Saxe Cobourg; born the 24th May, 1819; succeeded to the Throne on the decease of her Uncle, William IV., June 20th, 1837; proclaimed June 21st, 1837; Crowned June 28th, 1838; Married February 10th, 1840, to Field Marshall His Royal Highness Prince Albert Augustus Charles Emmanuel, Prince of Saxe Cobourg and Gotha, who died at Windsor Castle, December 14th, 1861.

ISSUE.

Victoria Adelaide Mary Louisa (Princess Royal) born November 21st, 1840; married January 25th, 1858, H. R. H. Frederick William, Prince of Prussia; Albert Edward, (Prince of Wales) born November 9th, 1841, married Princess Alexandra of Denmark, 10th of March, 1863; Alice Maud Mary, born April 22nd, 1843, married July 1st, 1862, H. R. H. Prince Louis of Hesse; Alfred Ernest Albert, born August 6th, 1844; Helena Augusta Victoria, born May 25th, 1846, married 6th of July, 1866, Prince Christian of Augustenburg; Louise Caroline Alberta, born March 18th, 1848; Arthur William Patrick Albert, born May 1st, 1850; Leopold George Duncan Albert, born April 7th 1853; Beatrice Mary Victoria Feodore, born April 14th, 1857.

THE QUEEN'S COUSINS—George Duke of Cambridge, born March 26th 1819; Princess Augusta, (Duchess of Mecklenburg Strelitz) born July 19th, 1822; Mary Adelaide Wilhelmina Elizabeth, born November 27th, 1833, married June, 1866, Prince Teck of Austria.

DOMINION OF CANADA.

THE GOVERNOR GENERAL.

The Right Honourable Charles Stanley Viscount Monck, Governor General of British North America, and Captain General and Governor in-Chief in and over the Dominion of Canada, and the Island of Prince Edward, and Vice-Admiral of the same, &c.

Denis Godley, Governor General's Secretary.

Aides de-Camp :—Lieut. Col. the Hon. R. Monek, Military Secretary and Aide-de-Camp; Captain Pemberton, 60th Rifles, Aide de-Camp; Lieut. Col. Irvine, Provincial Aide-de-Camp; Lieut. Col. F. W. Cumberland, extra Aide de Camp.

Lieut. General Sir C. Ash Windham, K.C.B., commanding the Forces in B. N. America. Military Secretary Lieut. Col. Earle, Grenadier Guards; Aides-de-Camp Capt. the Hon. H. Montmorenci, 32nd Foot, and Lieut. Harris, 86th Foot; Deputy Adjutant General, Col. J. E. Thackwell, Asst. A. General, Col. Lyons, Deputy Q. M. General, Col. G. J. Wolsley, Asst. Q. M. General, Lieut. Col. Sir Henry M. Havelock.

Commanding in Quebec, Major-General David Russel, C.B., Aide de-Camp, Capt. Malan 75th Foot. Major of Brigade, Capt. Healy, 16th Foot.

Commanding in Ontario, Major-General H. W. Stisted, C.B. Aide-de-Camps, Capt. Fryer, Rifle Brigade and Capt. Moorson, 30th Foot, Major of Brigade, Capt. Parsons.

Commanding in Nova Scotia, Major General Hastings Doyle; Aide-de-Camp, Capt. De Winton, R. A.

Commanding in New Brunswick, Colonel Hardinge, C. B.; Aide-de Camp, Capt. H. W. Clarke, 62nd Foot.

MEMBERS OF THE QUEEN'S PRIVY COUNCIL FOR CANADA.

Hon. Sir J. A. Macdonald, K.C.B	Hon. A. J. Ferguson Blair.
" G. E. Cartier, C.B.	" Peter Mitchell.
" S. L. Tilley, C. B.	" Alex. Campbell.
"	" J. C. Chapais.
" W. McDougall, C.B.	" H. L. Langevin.
" W. P. Howland, C.B.	" E. Kenny.

Wm. H. Lee, Clerk of the Privy Council for Canada, Wm. A. Hinsworth, asst. Clerk of the Privy Council, and Deputy Governors for signing money warrants for the Province of Canada.

Ministry of the Dominion of Canada.

Minister of Justice and Attorney-General.....	Hon. Sir J. A. Macdonald.
Minister of Militia.....	" G. E. Cartier.
Minister of Customs	" S. E. Tilley.
Minister of Finance	" A. T. Galt.
Minister of Public Works.....	" Wm. Macdougall.
Minister of Inland Revenue.....	" Wm. P. Howland.
Secretary of State for Province.....	"
President of Privy Council.....	" A. G. F. Blair.
Minister of Marine and Fisheries.....	" P. Mitchell.
Postmaster General.....	" A. Campbell.
Minister of Agriculture.....	" J. C. Chapais.
Secretary of State for Canada.....	" H. L. Langevin.
Receiver General.....	" E. Kenny.

The Act of 29th March, 1867, having declared that (clause 7) there shall be one Parliament for Canada, consisting of the Queen, an Upper House, called the Senate, (72 members) and the House of Commons, (181 members) and that (clause 25) such persons shall be first summoned to the Senate as the Queen thinks fit to approve. The following whose names were inserted in the Queen's Proclamation of Union, comprise the

SENATE OF CANADA.

Hon. Joseph Cauchon, Speaker.

From the Province of Ontario—24 Members.

Hon. John Hamilton.	Hon. Asa A. Burnham.
" Roderick Matheson.	" John Simpson.
" John Ross.	" James Skead.
" Samuel Mills.	" David L. Macpherson.
" Benjamin Seymour.	" George Crawford.
" Walter H. Dickson.	" Donald Macdonad.
" James Shaw.	" Oliver Blake.
" A. J. F. Blair, C. B.	" James C. Aikens.
" Alexander Campbell.	" Elijah Leonard.
" David Christie.	" Billa Flint.
" David Reesor.	" Walter McCrea.
" William McMaster.	" George W. Allan.

From the Province of Quebec—24 Members.

Hon. James Leslie.	Hon. E. H. J. Duchesnay.
" Asa B. Foster.	" David E. Price.
" Joseph N. Bosse.	" Leandre Dumonchel.
" Louis A. Oliver.	" Louis Lacoste.
" Jacques O. Bureau.	" Joseph F. Armand.
" Charles Malhiot.	" Charles Wilson.
" Louis Renaud.	" William H. Chaffers.
" Luc L. St. Just.	" J. B. Guevremont.
" Ulric J. Tessier.	" James Ferrier.
" John Hamilton.	" J. Cauchon.
" Charles Cormier.	" Thomas Ryan.
" A. J. Duchesnay.	" John S. Sanborn.

From the Province of Nova Scotia—12 Members.

Hon. Edward Kenny.	Hon. John W. Ritchie.
" Jonathan McCully.	" Benjamin Weir.
" Thomas D. Archibald.	" John Locke.
" Robert B. Dickey.	" Caleb R. Hill.
" John H. Anderson.	" John Bourimont.
" John Holmes.	" William Miller.

From the Province of New Brunswick—12 Members.

Hon. Amos E. Bostford.	Hon. William H. Steeves.
" Edward B. Chandler.	" William Todd.
" John Robertson.	" John Ferguson.
" Robert L. Hazler.	" Robert D. Wilmot.
" William H. Odell.	" A. R. McLellen.
" David Wark.	" Peter Mitchell.

Alterations may probably take place shortly in the members of Government, but it was judged inadvisable to postpone publication.

HOUSE OF COMMONS.

Clause 87 of the Union Act settles that the House of Commons shall consist of 181 members, of whom 82 shall be elected for Ontario, 65 for Quebec, 19 for Nova Scotia, and 15 for New Brunswick; and clause 50 enacts that each Parliament shall continue five years, unless sooner dissolved by the Governor General.

NOTE.—The division of Canada into Electoral Districts will be found under the separate head of Provinces.

Members from Ontario.

Addington....Lepum, E.	Middlesex, E. Wilson, C.
Algoma Simpson, W.	Middlesex, N. Scatcherd, T.
Bothwell Mills, D.	Middlesex, W. Macdonald, A. P.
Brant, N Bown, J. Y.	Northum'd. E. Keeler, J.
Brant, S Wood, E. B.	Northum'd. W. Cockburn, J.
Brockville Crawford, James.	Norfolk, S....Lawson, P.
Bruce, N Sproat, A.	Norfolk, N....Walsh, A.
Bruce, S Hurden, F.	Niagara, ...Morrison, A.
Carleton Holmes, J.	Ontario, N....Thomson, J. H.
Cornwall Macdonald, J. S.	Ontario, S....Gibbs, T. N.
Cardwell Ferguson, T. R.	Oxford, N....Oliver, T.
Dundas Ross, J. S.	Oxford, S....Bodwell, E. V.
Durham, E...Burton, F. H.	Ottawa Currier, J. M.
Durham, W....Blake, E.	Prescott Hagar, J.
Essex O'Connor, J.	Prince Edw'd. Ross, W.
Elgin, E.....Dobbie, S. W.	Perth, N Redford, J.
Elgin, W.....Munro, J. H.	Perth, S Macfarlane, R.
Frontenac Kirkpatrick, T.	Peel Cameron, J. H.
Glengary Macdonald, D. A.	Peterboro', E. Grover, P. M.
Grenville, S..Shanly, W.	Peterboro', W. Perry, C.
Grey, S Jackson, G.	Russel Grant, T. A.
Grey, N.....Snider, G.	Renfrew, S...McLachlin, D.
Halton White, J.	Renfrew, N....Rankin, J.
Hamilton.....Magill, C.	Stormont Ault, S.
Hastings, W..Brown, J.	Simcoe, N....McConkey, T. D.
Hastings, E...Read, R.	Simcoe, S Little, W. C.
Hastings, N...Bowell, McK.	Toronto, W...Harrison, R. A.
Haldimand ...Thompson, D.	Toronto, E....Beatty, J.
Huron, N.....Whitehead, Jos.	Victoria, N...Morrison, J.
Huron, S.....Cameron, M. C.	Victoria, S...Kempt, G.
Kent Stephenson, R.	Wentworth, N. McMonies, J.
Kingston Macdonald, Sir. J. A.	Wentworth, S. Rymal, J.
Lanark, N Macdougall, W.	Wellington, N. Drew, G. A.
Lanark, S Morris, A.	Wellington, C. Parker, T. S.
Leeds, N. and } Greenville, N }	Wellington, S. Stirton, D.
Leeds, S Crawford John.	Welland Street, T. C.
Lincoln Benson, J. R.	Waterloo, N. Bowman, Jas. E.
London Carling, J.	Waterloo, S...Young, J.
Lambton McKenzie, A.	York, E Medcalf, J.
Lennox Cartwright, R. J.	York, W.....Howland, W. P.
Monk McCallum, L.	York, N.....Wells, J. P.

From the Province of Quebec.

Argenteuil Abbot, J. J. C.
 Bagot Gendrow, A.
 Beauce Pozer, J.
 Beauharnois Cayley, J.
 Bellechasse Cassault, M.
 Berthier Paquet, A. H.
 Bonaventure Robitaille, T.
 Brome Dunkin, C.
 Chambly Benoit, M.
 Champlain Ross, J. J.
 Charlevoix Cimon, M.
 Chateauguay Holton, L. H.
 Chicoutimi Tremblay, P. A.
 Compton Pope, J. H.
 Dorchester Langevin, H. L.
 Drummond and
 Arthabaska } Senecal, M.
 Gaspé Fortin, P.
 Hochelaga Dorion, A. A.
 Huntingdon Rose, J.
 Iberville Bechard, M.
 Jacques Cartier Gaucher, G.
 Joliette Godin, F. B.
 Kamouraska No Member.*
 Laprairie Pinsonneault, A.
 L'Assomption Archambault, L.
 Laval Bellerose, J. H.
 Lévis Blanchett, J. G.
 L'Islet Pouilot, B.
 Lotbinière Joly, H. G.
 Maskinongé Caron, G.
 Mégantic Irvine, G.
 Missisquoi Chamberlain, B.

Montcalm Dufresne, J.
 Montmagny Beaubien, J. O.
 Montmorency Cauchon, J.
 Montreal, E Cartier, G. E.
 Montreal, C Workman, T.
 Montreal, W McGee, T. D.
 Napierville Coupal, S.
 Nicolet Gaudet, J.
 Ottawa County Wright, A.
 Pontiac Heath, E.
 Portneuf Brousseau, J. D.
 Quebec, E Huot, P. G.
 Quebec, C Simard, G. H.
 Quebec, W McGreevy, T.
 Quebec County Cheaveau, P. J. O.
 Rich'd. & Wolfe Webb, W. H.
 Richelieu McCarthy, J.
 Rimouski Sylvain, G.
 Rouville Cheval, M.
 St. Hyacinthe Kierskowski, M.
 St. Johns Bourassa, T.
 St. Maurice Desaulniers, Dr.
 Shefford Huntingdon, L. S.
 Sherbrooke Galt, A. T.
 Soulanges Masson, L.
 Stanstead Colby, C.
 Temiscouata Bertrand, M. C.
 Terrebonne Masson, L. R.
 Three Rivers DeNiverville, C. B.
 Two Mountains Daoust, J. B.
 Vaudreuil McMillan, S.
 Verchees Geoffron, F.
 Yamaska Fortier, M.

* In Kamouraska a new election (which is caused by the riots on the day of nomination) will have to take place after the meeting of Parliament.

From the Province of Nova Scotia.

Annapolis Ray, W. H.
 Antigonishe McDonald, H.
 Cane Breton McKeagney, J.
 Colchester McLelan, A. W.
 Cumberland Tupper, C.
 Digby Savary, A. W.
 Guysborough Campbell, S.
 Halifax Jones, A. G.
 Halifax Power, P.
 Hants Howe, J.

Inverness Cameron, H.
 King's Chipman, W. H.
 Lunenburg McDonald, E. M.
 Pictou Carmichael, J. W.
 Queen's Forbes, J.
 Richmond Croke, W. J.
 Shelburne Coffin, T.
 Victoria Ross, W.
 Yarmouth Killam, T.

From the Province of New Brunswick

Albert Wallace, J.
 Carleton Connel, C.
 Charlotte Boulton, J.
 Gloucester Anglin, T.
 Kent Renaud, A.
 King's Ryan, G.
 Northumberland Johnson, J. M.
 Restigouche McMillan, J.

St. John, City Tilley, S. L.
 St. John, Coun. Gray, J. H.
 Sunbury Burpee, C.
 Queen's Ferris, T.
 Victoria Costigan, E.
 Westmoreland Smith, A. J.
 York Fisher, C.

PROVINCE OF ONTARIO.

Major-General Henry W. Stisted, C. B., Lt.-Governor of Ontario.

Executive Council.

Attorney General.....	Hon. J. S. Macdonald.
Secretary and Registrar	" M. C. Cameron.
Treasurer of the Province.....	" E. B. Wood.
Commissioner of Crown Lands	" S. Richards.
Commissioner of Agriculture and Public Works	" J. Carling.
Clerk of the Executive Council, R. J. Dalton, Esq., Q. C.; Clerk of the Crown in Chancery, Salter Vankoughnet, Esq.	

Legislative Assembly of Ontario.

Addington.....	Hooper, E. J.	Middlesex, E.....	Evans, J.
Algoma	Cumberland, F. W.	Middlesex, N	Smith, J. S.
Bothwell	McKellar, A.	Middlesex, W	Currie, N.
Brant, N.....	Finlayson, H.	Northum'd, E.....	Eyre, J.
Brant, S	Wood, E. B.	Northum'd, W.....	Fraser, A.
Brockville	Fitzsimmons, W.	Norfolk, S	McCall, S.
Bruce, N.....	Sinclair, D.	Norfolk, N.....	Wilson, J.
Bruce, S	Blake, E.	Niagara	Robertson, D.
Carleton	Lyon, R.	Ontario, N.....	Paxton, T.
Cornwall.....	Macdonald, J. S.	Ontario, S	McGill, Dr.
Cardwell.....	Swinerton, T.	Oxford, N	Perry, G.
Dundas	Cook, J.	Oxford, S	Oliver, A.
Durham, E.....	Williams, A. T. H.	Ottawa	Scott, R. W.
Durham, W	McLeod, J.	Prescott	Boyd, J.
Essex	Wigle, S.	Prince Edward.....	Greely, A.
Elgin, E	Luton, D.	Perth, N.....	Monteith, A.
Elgin, W	McColl, Nicol.	Perth, S	Trow, J.
Frontenac	Smith, H. Sir.	Peel	Coyne, J.
Glenarry	Craig, J.	Peterboro', E	Reid, G.
Grenville, S	Clark, M.	Peterboro', W	Carnegie, J.
Grey, N	Scott, T.	Russel	Craig, W.
Grey, S	Lauder, A. W.	Renfrew, S.....	McDougall, J. L.
Halton	Barber, W.	Renfrew, N	Supples, J.
Hamilton	Williams, J. M.	Stormont	Colquhoun, —
Hastings, W	Graham, K.	Simcoe, N	Lount, W.
Hastings, E	Corby, J.	Simcoe, S	Ferguson, T. R.
Hastings, N	Boulter, G. H.	Toronto, W	Wallis, J.
Haldimand	Baxter, Dr.	Toronto, E.....	Cameron, M. C.
Huron, N	Hays, Torrance, W.	Victoria, N.....	Cockburn, A. P.
Huron, S.....	Gibbons, R.	Victoria, S	Matchett, T.
Kent	Smith, J.	Wentworth, N.....	Christie, R.
Kingston	Strange, M. W.	Wentworth, S	Sexton, W.
Lanark, N	Galbraith, D.	Wellington, N	McKim, J.
Lanark, S	Shaw, M. W.	Wellington, C	Ferrier, A. D.
Leeds, N. and }	Smith, H. D.	Wellington, S	Gow, P.
Grenville, N. }		Welland	Beatty, W.
Leeds, S	Tett, B.	Waterloo, N	Springer, M.
Lincoln	Rykert, J. C.	Waterloo, S	Clemens, J.
London	Carling, J.	York, E	Crosby, H. P.
Lambton	Pardee, J. B.	York, W.....	Grahame, T.
Lennox	Stevenson, J.	York, N	McMurrich, J.
Monk	Secord, G.		

Clause 85 of the Union Act enacts that each Assembly shall continue for four years, unless previously dissolved by the Lt.-Governor of the Province.

Province of Quebec.

Sir Narcisse F. Belleau, Kt., Lieut. Governor of the Province of Quebec.

The Executive Council of Quebec consists of an Attorney General, Secretary and Registrar, Treasurer of the Province, the Commissioner of Crown Lands, the Commissioner of Public Works, Solicitor General, and the Speaker of the Legislative Council.

Legislative Council of Quebec.

To be composed of Twenty-four members, to be appointed by the Lieut. Governor in the Queen's Name, one being appointed to represent each of the twenty-four electoral divisions of Lower Canada, specified in Schedule A, Chap I. of the Consolidated Statutes of Canada. The power of appointing a Speaker of the Legislative Council is also vested in the Lieut. Governor, said Speaker being also a Member of the Executive Council.

Legislative Assembly of Quebec

Shall be composed of Sixty-Five Members to be elected to represent the sixty-five electoral divisions of this Province.

Nova Scotia.

Major General C. Hastings Doyle, Lieut. Governor.

The Constitution of the Legislature of this Province remains unaltered. It consists of an Executive Council of 9 members, a Legislative Council of 21 members, nominated by the Crown, and a House of Assembly of 55 members elected every 4 years, by the inhabitants of the 18 Counties and the principal towns.

New Brunswick.

Colonel Hardinge, C. B., Lieut. Governor.

The Constitution of the Legislature of this Province remains unaltered and the House of Assembly shall, unless sooner dissolved, continue for the period for which it was elected.

Note.—In the offices of Lieutenant-Governor of the Maritime Provinces a change will likely take place shortly.

The exclusive Legislative authority of the Parliament of Canada extends to all matters coming within the classes of subjects hereinafter mentioned.

1. Public Debt and Property.
2. Regulation of Trade and Commerce.
3. The raising of Money by any mode of Taxation.
4. The Borrowing of Money on the Public Credit.
5. Postal Service.
6. Census and Statistics.
7. Militia, Military and Naval Service and Defence.
8. The Fixing of, and providing for the salaries and allowances of Civil and other officers of the Government of Canada.
9. Beacons, Buoys, and Light-houses.
10. Navigation.
11. Quarantine and the establishment and maintainance of Marine Hospitals.
12. Sea, Coast and Inland Fisheries.
13. Ferries between a Province and any British or Foreign country or between two Provinces.
14. Currency and Coinage.
15. Banking and Incorporation of Banks and issue of Paper Money.
16. Saving Banks.

17. Weights and Measures.
18. Bills of Exchange and Promissory Notes.
19. Interest.
20. Legal Tender.
21. Bankruptcy and Insolvency.
22. Patents of Invention and Discovery.
23. Copyright.
24. Indians and Lands reserved for Indians.
25. Naturalization of Aliens.
26. Marriage and Divorce.
27. The Criminal Law.
28. The Establishment and Maintenance of Penitentiaries.
29. Such classes of subjects as are not assigned exclusively to the Legislature of the Provinces.

In each Province the Legislature may exclusively make laws in relation to matters coming within the Classes next enumerated.

1. The amendment from time to time notwithstanding any thing in this act, of the Constitution of the Province, except as regards the office of Lieut. Governor.
2. Direct Taxation within the Province in order to raise a revenue for provincial purposes.
3. The Borrowing of Money on the sole credit of the Province.
4. The establishment and tenure of Provincial offices and the appointment and payment of Provincial officers.
5. The management and sale of Public Lands belonging to the Province, and the timber and wood thereon.
6. The establishment and management of public and Reformatory prisons in and for the Province.
7. The establishment, maintenance, and management of Hospitals, Asylums, and Charities in and for the Province, other than marine hospitals.
8. Municipal Institutions in the Province.
9. Shop, Saloon, Tavern, Auctioneer, and other licences, in order to the raising of a revenue, for provincial, local or municipal purposes.
10. Local Works and other undertakings.
11. The incorporation of companies with provincial objects.
12. The solemnization of marriage within the Province.
13. Property and civil rights within the Province.
14. The administration of Justice in the Province, including the Constitution, maintenance, and organization of Provincial Courts, both of Civil and Criminal jurisdiction.
15. The imposition of punishment by fine, penalty, or imprisonment.
16. Generally all matters of a merely local or private nature in the Province.

Provincial Public Works to be the property of Canada.

1. Canals with lands and water-power connected therewith.
2. Public Harbors.
3. Lighthouses, Piers, and Sable island.
4. Steamboats, dredges, and public vessels.
5. River and Lake improvements.
6. Railway and Railway Stocks, mortgages, and other debts due by Railway companies.
7. Military Roads.
8. Custom Houses, Post Offices, and all other public buildings except such as the Government of Canada appropriate for the use of the Provincial Legislature.

9. Property transferred by the Imperial Government, and known as Ordnance property.
10. Armories, Drill Sheds, Military Clothing and Munitions of War, and land set apart for general public purposes.

POST OFFICE DEPARTMENT.

Hon. Alexander Campbell, postmaster general; W. H. Griffin, deputy postmaster general; H. A. Wickstead, accountant; Wm. White, secretary; P. LeSuer, Superintendent of Money Order branch; J. Ashworth, cashier.

RATES OF POSTAGE ON LETTERS.

From one place to another in Canada, 5 cents per half oz., if prepaid; 7 cents if unpaid, and on *prepaid* or *unpaid* letters between any place in Canada and Nova Scotia, New Brunswick, Prince Edward Island and Cape Breton, 5 cents per half oz.

To Newfoundland,	12½	cents per half oz. ; must be prepaid.
British Columbia,	10	" " " "
Red River,	10	" " " " prepayment optional.
United States,	10	" " " " " "

The single rate of postage on letters to the United Kingdom, is by Canadian Steamer, 12½ cents per half oz. By Cunard Steamer, 17 cents per half oz. The postage on all letters posted in Canada for the United Kingdom should be *prepaid*, if sent unpaid, 6d sterling will be charged on each letter on delivery, in addition to the ordinary postage rate.

Newspapers and Periodicals.

Newspapers published in Canada may be sent by Post from the office of publication addressed to any place in Canada at the following rates, *if paid quarterly in advance*, by either the publisher at the post office where the papers are posted, or by the subscriber at the delivery post office :

For a paper published 6 times a week, 40 cents per quarter.

"	"	3	"	20	"
"	"	2	"	13	"

For a paper published once a week, 6½

"	"	semi-monthly,	3¼	"
"	"	monthly,	1½	"

When the above rates are not paid in advance by either the publisher or subscriber, the papers are charged 1 cent each on delivery.

Postage Stamps.

Postage stamps of the respective values of 1 cent, 2 cents, 5 cents, 10 cents, 12½ cents, and 17 cents, are provided for sale to the public.

Registration.

By the prepayment of the following fee, in addition to the ordinary postage, letters and parcels can be registered at the office at which posted :

On letters addressed to any place in Canada or the other British American Provinces 2 cents.

On letters addressed to any place in the United States 5 "

" " " " United Kingdom 8 "

On parcels, packets of patterns, or samples, to any part of Canada 5 "

On book packets and newspapers to the United Kingdom 8 "

When letters are registered, for whatever destination, both the postage and the registration fee must be prepaid. The registration does not render the Post Office responsible for its safe delivery; it simply makes its transmission more secure, by rendering it practicable to trace it when passing from one place to another in Canada, and at least to the frontier or port of dispatch in the case of the United States or England.

Money Orders.

Money Orders, payable in the Province, may be obtained at any Money Order Office (of which a list can be seen at any Post Office), at the following rates:

Under and up to \$10	5 cents.
Over \$10 and not exceeding \$20.....	10 "
" 20 " 40.....	20 "
" 40 " 60.....	30 "
" 60 " 80.....	40 "
" 80 " 100.....	50 "

No single order can be issued for more than \$100.

Money Orders on England, Ireland and Scotland.—Money Orders payable at any Money Order Office in Great Britain and Ireland can be obtained at any Canadian Money Order office. The Orders are drawn in sterling, the commission chargeable being for £2 and under, 25 cents; from £2 to £5, 50 cents; from £5 to £7, 75 cents; from £7 to £10, \$1 00. No order can be drawn for more than £10; but any number of orders for £10 each may be procured.

The rate of commission charged on orders on Nova Scotia, New Brunswick, Newfoundland, and Prince Edward Island, over and above the currency value of the sterling is as follows:—

For orders not exceeding £5 sterling.....	25 cents.
£5, and not exceeding £10 sterling.....	50 "
£10, " £15 "	75 "
£15, " £20 "	1 dollar.

DUTIES ON PROMMISSORY NOTES AND BILLS OF EXCHANGE.

Stamps required for Single Notes, Drafts, and Bills of Exchange.

3 cents for	\$100
3 " every additional.....	\$100
3 " every additional fraction of	\$100

For Notes and Drafts, Bills in Duplicate.

2 cents on each part of.....	\$100
2 " " for every additional	\$100
2 " " and for every additional fraction of	\$100

For Notes, Drafts and Bills, in more parts than two.

1 cent on each part for	\$100
1 " " for every additional	\$100
1 " " for every additional fraction of.....	\$100

By a recent alteration this Act is extended to sums under \$100 as follows:—Under \$25, 1 cent; \$25 and upwards to \$50, 2 cents; \$50 and upwards to \$100, 3 cents; interest payable at maturity to be counted as principal. The fourth clause of this Stamp Act enacts that—Any cheque upon a chartered bank or licensed banker, or on any savings' bank, if the same shall be payable on demand: any post office money order, and any municipal debenture, or coupon of such debenture, shall be free of duty under this Act.

The name of the maker, drawer, or acceptor, or his initials, or some integral part of the instrument, shall be written (as far as practicable) upon the stamp so used, to identify it with the instrument, and to show that it has not before been used.

JUDICIARY OF ONTARIO.

COURT OF ERROR AND APPEAL.—*Judges*, Hon. P. M. Vankoughnet, Chancellor of Upper Canada; combined with the Judges of the Chancery, Queen's Bench, and Common Pleas Courts.

COURT OF QUEEN'S BENCH.—The jurisdiction of this Court extends to all manner of actions, causes, and suits, criminal and civil, real, personal, and mixed, within Ontario. *Chief Justice*, Hon. W. H. Draper, C.B. *Puisné Judges*, Hon. John Hawkins Hagarty, D.C.L., and Hon. J. C. Morrison.

COURT OF CHANCERY.—This Court has the like jurisdiction as the Court of Chancery in England, in cases of fraud, accident, trusts, executors, administrators, co-partnerships, accounts, mortgages, awards, dower, infants, idiots, lunatics, and their estates, waste, specific performances, discovery, and to prevent multiplicity of suits, staying proceedings at law prosecuted against equity and good conscience, and may decree the issue, repeal, or avoidance of letters patent, and generally the like powers which the Court of Chancery in England possesses, to administer justice in all cases in which there is no adequate remedy at law. *Chancellor*, Hon. P. M. Vankoughnet, D.C.L. *Vice-Chancellors*, Hon. Oliver Mowat, and Hon. John Godfrey Spragge. *Master*, Andrew Norton Buell.

COURT OF COMMON PLEAS.—This Court has the same powers and jurisdiction as a Court of Record, as the Court of Queen's Bench. *Chief Justice*, Hon. W. B. Richards. *Puisné Judges*, Hons. A. Wilson, and J. Wilson.

HEIR AND DEVISEE COURT.—*Commissioners*, the Judges of the Superior Courts, and such other person as may be appointed by commission under the Great Seal. These duties are to determine claims to lands in Upper Canada, for which no patent has issued from the Crown in favor of the proper claimants, whether as heirs, devisees or assignees. *Sittings* at Toronto, first Monday in January and July in each year. *Clerk of Commissioners*, W. B. Heward.

COUNTY COURTS.—Presided over by a resident Judge in each County. Their jurisdiction extends to all personal actions where the debt or damages claimed do not exceed £50; and to all suits relating to debt, covenant or contract, where the amount is ascertained by the acts of the parties, or signature of the defendant, to £100. The appeal lies to either of the Superior Courts of Law. These Courts also possess equity powers, to the amount of £50, subject to an appeal to the Court of Chancery.

SURROGATE COURTS.—The jurisdiction of these Courts relates to all testamentary matters and causes, and to the granting or revoking of probate of wills, and letters of administration of the effects of deceased persons having estate or effects in Upper Canada. The County Judges are also judges of the Surrogate Courts. Sir J. L. Robinson, Surrogate Clerk, Toronto.

DIVISION COURTS.—For the summary disposal of cases by a Judge; but a jury of five persons may be demanded in certain cases. Their jurisdiction extends to actions of debt or contracts amounting to £25; injuries or torts to personal chattels amounting to £10. Courts are held once in two months in each division, or oftener, at the discretion of the Judge.

RECORDER'S COURT.—In the cities of Toronto, Hamilton, London, Kingston and Ottawa, the Recorder's Court takes the place of the County Sessions, the Justices for Counties having no jurisdiction in the Cities—the care of which is confined to the Recorder, Mayor, Aldermen, and Police Magistrate of each. Sessions held 2nd Monday in January, 1st Monday in April and July, and 3rd Monday in November. *Recorders*, George Duggan, Toronto; James O'Reilly, Kingston; John E. Start, Hamilton; Wm. Horton, London; J. B. Lewis, Ottawa.

INSOLVENT DEBTOR'S COURT.—The County Judge in each County presides.

TERMS OF THE COURTS.

APPEAL TERMS.—Commence on the second Thursday next after Hilary, Easter, and Michaelmas Terms.

LAW TERMS.—Hilary begins first Monday in February, and ends Saturday of the ensuing week; Easter begins 3rd Monday in May, and ends Saturday of the ensuing week. Michaelmas begins 3rd Monday in November, and ends Saturday of the ensuing week. Long vacation from 1st July to 21st August.

CHANCERY TERMS.—From 4th Monday in April until Saturday of following week; and from 3rd Monday in November till Saturday of following week—and every Tuesday except during vacations.

COUNTY COURT TERMS.—Commence on the 1st Monday in January, April, July, and October, and end the following Saturday.

CIRCUITS OF THE COURTS.

LAW CIRCUITS.—The Circuits are held twice a year in each county, between Hilary and Easter Terms, and between the 21st of August and Michaelmas Terms, except in the County of York, where there are three in each year, commencing on Thursday next after municipal elections in January, the second Monday in April, and the second Monday in October in each year.

LEGAL HOLIDAYS.

Sunday; New Year's Day; Epiphany; Annunciation; Good Friday; Ascension; Corpus Christi; St. Peter; St. Paul; All Saints; Christmas Day, and any day appointed by proclamation for a general fast or thanksgiving.

EDUCATIONAL.

UNIVERSITY COLLEGE, TORONTO.—Dr. McCaul, President, with a staff of nine Professors in Arts, a Lecturer in Oriental Languages, and a Classical Tutor.

UNIVERSITY OF QUEEN'S COLLEGE, KINGSTON.—Rev. W. Snodgrass, Principal, with fourteen Professors in Arts, Divinity, and Medicine.

VICTORIA COLLEGE, COBOURG.—Dr. Nelles, President, assisted by a full staff of Professors in Arts, Medicine, and Law.

TRINITY COLLEGE, TORONTO.—Provost, Rev. Mr. Whittaker, M.A. Seven Professors of Divinity, Arts, and Music, are attached to this College.

UPPER CANADA COLLEGE, TORONTO.—G. R. R. Cockburn, M.A., Principal, with a staff of teachers in Classics, English, and Modern Languages.

JUDGES, SHERIFFS, AND COUNTY ATTORNIES, U. C.

COUNTY.	JUDGE.	SHERIFF.	COUNTY ATT'Y.
Algoma District	J. Prince	R. Carney	J. M. Hamilton.
Brant	S. J. Jones	J. Smith	G. Van Norman.
Carleton	C. Armstrong	S. Fraser	R. Lees.
Elgin	D. L. Hughes	C. Munro	J. Stanton.
Essex	G. W. Leggatt	J. McEwan	S. Macdonell.
Frontenac	W. G. Draper	W. Ferguson	R. M. Wilkison.
Gray	H. Macpherson	J. Maughan	J. Creasor.
Haldimand	J. G. Stephenson	R. Martin	J. R. Martin.
Halton	J. Davis	G. C. McKindsey	G. T. Bastedo.
Hastings	G. Sherwood	G. Taylor	C. L. Coleman.
Huron and Bruce	R. Cooper	J. McDonald	Ira Lewis.
Kent	Wm. Wells	J. Mercer	A. D. McLean.
Lambton	C. Robinson	J. Flintoft	T. B. Pardee.
Leamark	J. G. Malloch	J. Thompson	D. Fraser.
Leeds and Grenville	G. Malloch	C. Dickenson	E. Senkler.
Lennox & Addington	J. J. Burrowes	O. T. Pruyn	W. Wilkison.
Lincoln	J. M. Lawder	J. A. Woodruff	R. Macdonald.
Middlesex	J. E. Small	Wm. Glass	C. Hutchinson.
Norfolk	Wm. Salmon	E. Deedes	W. M. Wilson.
Northum'd & Durh'm	G. M. Boswell	R. N. Waddell	J. D. Armour.
Ontario	Z. Burnham	N. S. Reynolds	S. H. Cochrane.
Oxford	D. S. McQueen	A. Ross	F. Ball.
Perth	D. H. Lizars	R. Modervell	M. Hayes.
Peterborough	R. M. Boucher	J. Hall	C. A. Weller.
Prescott and Russell	J. Daniel	C. P. Treadwell	E. T. Dartnell.
Prince Edward	D. Fairfield	H. J. Thorp	P. Low.
Simcoe	J. R. Gowan	Wm. B. Smith	J. R. Cotter.
Renfrew	J. Deacon	J. Morris	Wm. Duck.
Stormont, Dundas, and Glengary	G. S. Jarvis	D. E. McIntyre	J. F. Pringle.
Victoria	J. Smith	N. McDougall	A. Lacourse.
Waterloo	Wm. Miller	G. Davidson	T. Miller.
Wellington	A. Macdonald	G. Grange	H. W. Paterson.
Wentworth	A. Logie	E. C. Thomas	S. B. Freeman.
Welland	H. W. Price	R. Hobson	L. D. Raymond.
York	J. Boyd, deputy	F. W. Jarvis	John McNab.

Clause 96, of the union act, provides—that the Governor General shall appoint the judges of the Superior, District, and County Courts in each province, except those of the Courts of Probate in Nova Scotia and New Brunswick. The act also defines that the Judges of the different courts shall be selected from the Bars of their respective provinces, that they shall hold office during good behaviour, and that their salaries shall be fixed and provided by the Parliament of Canada.

Power is, also, given to the Parliament to constitute and maintain a general court of appeal for the Dominion of Canada.

MEDICAL BOARD FOR UPPER CANADA.—Constituted by act of Parliament for the Registration of properly qualified Medical Practitioners, the determining of a complete course of study, and the examination of candidates for license. President, Dr. Dickson; Registrar and Secretary, Dr. Strange, Hamilton. Examiner, Dr. Walker, Port Dover.

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“ Richardson, University of Toronto

“ Dickson, Quinte and Cataraqui.

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“ Sullivan, Regiopolis College.

Dr. Wm. McGill, King's and Queen's

“ Clarke, Brock and Saugeen.

“ Berryman, Victoria College.

“ Fulton, Malahide and Tecumseh.

“ Askam, Western and St. Clair.

“ Aikins, Toronto School of Medicine.

“ Yates, Queen's College, Kingston

“ Laval, Coll. of P. and Surgeons.

“ Beaubien, Ottawa College.

LUNATIC ASYLUM, TORONTO.—A provincial institution, supported by an annual grant from the Province, and a small tax of one half cent in the dollar on the taxable property of each municipality; commenced in 1841 by Dr. Rees; present building erected 1845, at present being greatly enlarged under the superintendence of inspectors appointed by government Medical Officer, John Workman, M.D. Branches of this institution exist at Fort Malden, Co. of Essex, Orillia for Chronic patients, and one for convalescents in the University Park, Toronto.

THE TORONTO SCHOOL OF MEDICINE—In connection with the University of Toronto. Session extends from beginning of October to end of following March. President W. T. Aikins, M.D. A full course of instruction is provided by twelve lecturers in Surgery, Medicine, Chemistry and Botany. Degrees obtained by students of this school from the University are recognized by the Medical Institutions of England.

MEDICAL DEPARTMENT OF THE UNIVERSITY OF VICTORIA COLLEGE.—Hon. John Rolph, Dean. Lectures begin in October and continue for six months. Examinations are held twice during the session. A course of study at this institution qualifies for examination before the principal Medical boards in England. A staff of nine Lecturers, independent of the dean, carry on the work of this college.

MEDICAL FACULTY OF QUEEN'S COLLEGE, KINGSTON—H. Yates, M.D., Dean, in conjunction with nine Lecturers on Medicine, Chemistry and Anatomy. Session extends from the first Wednesday of October to the last Thursday of March.

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Agencies.—Dundas, Ottawa.

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Agencies.—Cornwall, Elora, Fergus, Goderich, Lindsay, Mount Forest, Perth, Picton, Simcoe, St. Catharines, St. Mary's, Stratford, Waterloo.

BANK OF TORONTO.—Capital \$2,000,000.—Toronto.

Agencies.—Barrie, Cobourg, Montreal, Peterboro, Port Hope.

BANK OF UPPER CANADA.

This institution became insolvent, September, 1866, and exists only to wind up its affairs.

BANQUE JACQUES CARTIER.—Capital \$1,000,000.—Montreal.

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BANK OF COMMERCE.—Toronto, London.

MERCHANTS' BANK.—Montreal, Capital \$2,000,000.

NATURAL BAROMETERS.—Chick weed is an excellent Barometer. When the flower expands fully we are not to expect rain for several hours; should it continue in that state no rain will disturb the sky. When it half conceals its minature flower, the day is generally showery; but if it entirely shut up or veils the white flower, with its green mantle, let the traveller put on his greatcoat.

POPULAR SCIENCE.—Of the sixty-two primary elements known in nature, only eighteen are found in the human body, and of these, seven are metallic. Iron is found in the blood, phosphorus in the brain, limestone in the bile, lime in the bones, dust and ashes in all. These human elements have their essential basis in four substances, represented in the familiar names of fire, water, saltpetre, and charcoal. And such is man, a spark of fire, a drop of water, a grain of gunpowder, an atom of charcoal.

HEATING VALUES OF DIFFERENT WOODS.—Shell bark hickory being taken as the standard, 100; pignut hickory, 95; white hazel, 72; apple tree, 70; red oak, 69; black walnut, 66; white beech, 65; black birch, 62; yellow oak, 60; hard maple, 59; white elm, 58; red cedar, 50; wild cherry, 55; yellow poplar, 52; butternut, 52; white birch, 49; white pine, 42.

BARKING OF DOGS.—This is an acquired hereditary instinct, supposed to have originated in an attempt to imitate the human voice, wild dogs, and domestic breeds which have become wild, never bark only howl. Cats in their wild state in S. America are quite silent.

WHY BEES WORK IN THE DARK.—It seems that honey exposed to the action of light rapidly crystallises, or candies, while that kept in the dark remains liquid, we can now see why bees are so careful to obscure the glass windows which are some times placed in their hives. The existence of their young depends upon the liquidity of their food, under the action of light it would acquire a more or less solid consistency, it would seal up the cells and prove fatal to the inmates.

GREEN CHEESE.—The grand error in our cheese making, is the want of care in not ripening the cheese before it is sent to market. The curd is a green apple, the cheese is the ripened fruit. If you were going to send hay to market you would not send the green grass from the field, and yet you often sell your cheese when it is as green as grass. In the Cheshire dairies of England, none is ever sold under six months old. The cheese are kept in a moderately warm room until thoroughly ripened and cured.

LAND MEASURE.—Every farmer should have a rod measure, a light stiff pole just $16\frac{1}{2}$ feet long, for measuring land. Ascertain the number of rods in length and width of a lot which you wish to measure, and multiply, divide by 160 and you have the number of acres.

ALPHABETS.—The number of letters in the alphabets of different languages is as follows:—English, 26; French, 25; German, 26; Spanish, 24; Dutch, 26; Greek, 24; Latin, 25; Slavonic, 27; Arabic, 28; Persian, 31; Turkish, 33; Georgian, 36; Hebrew, Chaldee, and Syriac, each, 22; Coptic, 32; Sanscrit, 50; Bengala, 21; Burmese, 19.

DRIVING A BUSINESS.—Drive your business, but never permit your business to drive you, to drive one's business is a proposition easily understood, but how to prevent its becoming the driver is a more difficult problem. How often do we see merchants bowed down with premature old age, resting under the pressure of heavy business cares, these men are permitting their business to be the driver, very few of them really enjoy one moment of their lives, while more than four-fifths of them die poor. On

the other hand, were these men willing to do less, always seeing the end from the beginning, they could show at the close of life their worldly work accomplished, without taking all their time from higher and better thoughts and works, a fair balance in money made, and blessed with satisfaction and comfort.

BEST TIME TO CUT TIMBER.—The months of August, September, and October are the best months in the year to cut hard wood timber. If cut in these months the timber is harder, more elastic and durable than if cut in Winter months, it is also less liable to be attacked by worms and it is not so liable to crack.

ADVICE TO YOUNG MEN OF BUSINESS.—Do not undertake a business with which you are not perfectly acquainted. Never attempt a business for which you have no taste or tact. Never connect yourself with those in whom you have not perfect confidence. Never attempt to do more business than you can safely do on your capital. Avoid taking the extraordinary risks of long credit. Give no credit to any one of a bad moral character. Supervise, carefully your own business, *not your neighbours*. Have an eye on the condition of the country, its crops, and the general prospects for business. Keep good company. Value integrity more than money. Live within your means. Eschew wine, theatres and horses. Use no profane language. Never quarrel with a partner. Be kind, considerate and generous to clerks and also to your unfortunate debtors. Cultivate the friendship of all. Do your proper share in promoting the public weal. Be a man, a gentleman, and a christian; and you will make sure of an inheritance in this life and of untold riches in the life which is to come.

Mess Pork.—The following standard rules, known as "Getty's Directions," are those given for putting up prime mess pork, to meet the requirements of the English market. *Quality and weight of Pigs.*—The pigs to weigh about 160 or 170 pounds each, and to be in good condition, strictly corn-fed or hard pork. The head is to be excluded, also the fore leg up to the breast or brisket, the hind leg, including the hock or gambrel joint, and the rump, if the hams are not cut up along with the sides.

What constitutes a barrel of Prime Mess.—A barrel of prime mess pork consists of fifty pieces of four pounds each. If the hams are cut up and put in, there shall not be less than twenty-three side pieces; if without hams, not less than thirty side pieces. *How to cut and cure.*—After the pig has been split through the back, cut each side lengthways into two strips; pack the strips into large casks, or vats, and fill up with brine, having saltpetre added at the rate of one ounce to three gallons of brine; leaving the strips in the brine for eight or ten days to extract the blood, and for the lean meat to take a pink color. When ready to be packed into barrels, have each strip carefully cleaned, using a knife and brush if necessary. Cut them into four pound pieces as nearly as possible; select the pieces as indicated, and pack neatly and compactly in layers, with sufficient salt to preserve it. *Barrels.*—The barrel should be twenty-eight inches long, and seventeen and a half over the end, (when finished), made of seasoned white oak, free from sap, full bound with hickory or white oak hoops, and one iron hoop, one inch wide, on each end next below the chine hoop.

Theory of Messing.—Pigs averaging say 150 pounds will work up in messing about as follows:—When the side, including the ham, is cut up there will be twenty-four pieces of side meat, eight pieces of ham and saddle, and eighteen or nineteen of shoulder or neck to the barrel. In no case should there be more than six pieces of the leg part of the shoulder put into a barrel.

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